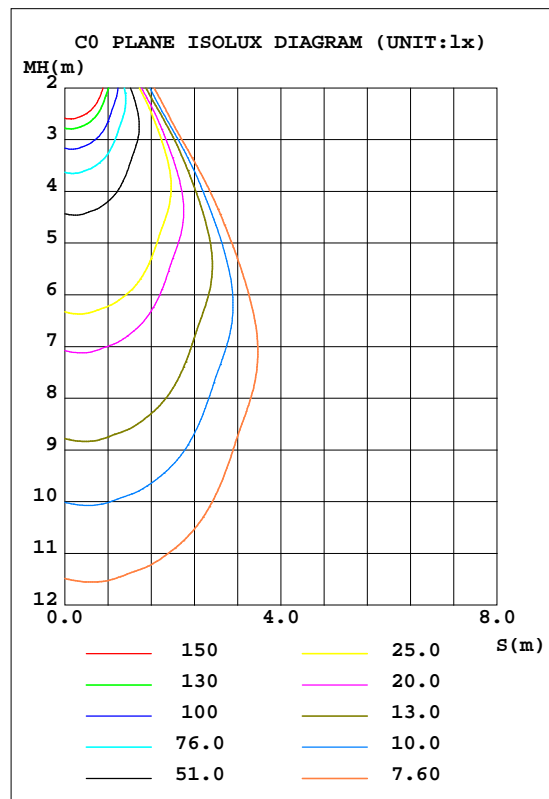
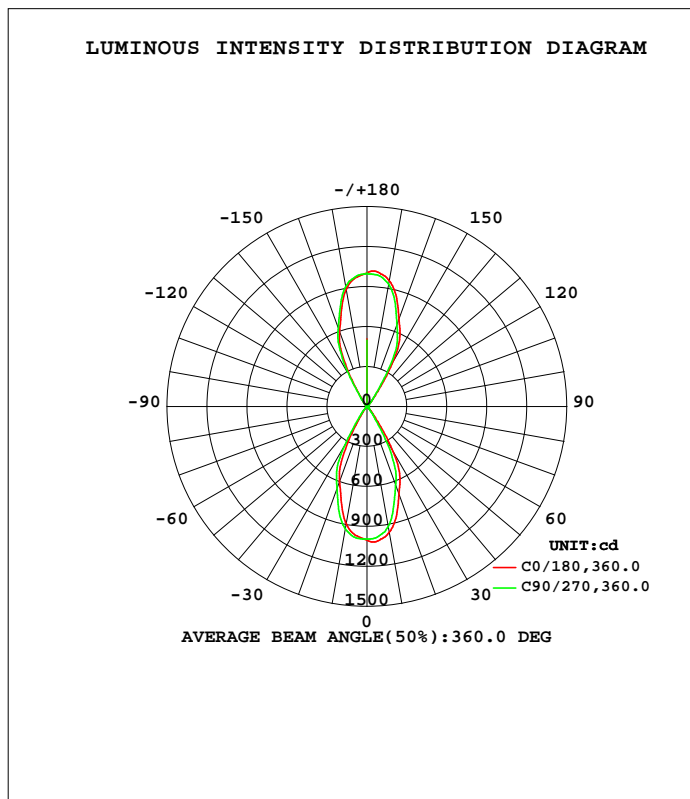


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.65V I:0.0942A P:20.335W PF:0.9362 Freq:49.99Hz Lamp Flux:641.542x2 lm		
NAME: Square zuky up&down 2x10W AC LED outdoor	waTYPHeight	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 63.10 lm/W			
MODEL	2068AL-Q5	I <sub>max</sub> (cd)	1018	S/MH(C0/180)	0.72
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.79
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	1283.1	h UP, DN(C0-180)	25.9, 24.3
NOMINAL FLUX(lm)	641.542	CIE CLASS	DIFFUSE	h UP, DN(C180-360)	24.1, 25.7
LAMPS INSIDE	2	h up(%)	50.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	230.0	h down(%)	50.0	CIBSE SHR MAX	0.80



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:LQL  
 Test Date:04 July 2023

Range: 0 - 180DEG  
 Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=0.9648]  
 Remarks: Edison 10W AC LED

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

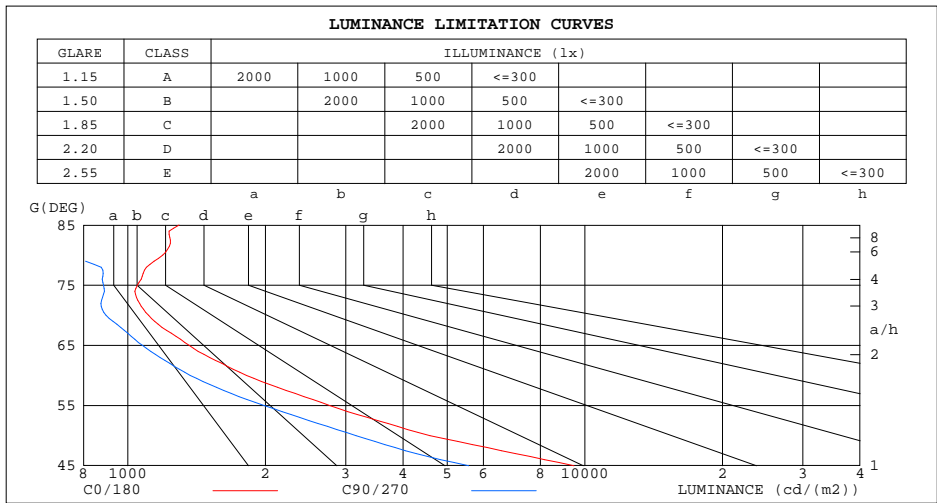
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	959.8	940.5	916.6	896.1	895.8	912.8	934.6	951.9	0- 10	92.18	92.18	7.18,7.18
20	703.1	670.7	631.5	600.0	604.1	623.9	659.0	696.5	10- 20	220.2	312.4	24.3,24.3
30	396.2	339.1	254.6	210.4	208.5	258.5	330.8	390.3	20- 30	227.1	539.5	42,42
40	62.43	52.02	37.37	28.24	28.84	36.66	48.94	59.61	30- 40	78.59	618.0	48.2,48.2
50	11.34	9.614	7.819	6.515	6.608	7.569	9.107	10.81	40- 50	15.68	633.7	49.4,49.4
60	3.501	3.045	2.639	2.441	2.417	2.661	3.049	3.414	50- 60	4.565	638.3	49.7,49.7
70	1.462	1.310	1.180	1.160	1.143	1.299	1.417	1.445	60- 70	1.938	640.2	49.9,49.9
80	0.7971	0.7061	0.4863	0.4597	0.4048	0.5110	0.7898	0.8341	70- 80	1.010	641.2	50,50
90	0.1106	0.0885	0.0738	0.0585	0.0664	0.0627	0.0590	0.0742	80- 90	0.3052	641.5	50,50
100	0.7971	0.8341	0.7898	0.5110	0.4048	0.4597	0.4863	0.7061	90-100	0.3052	641.8	50,50
110	1.462	1.445	1.417	1.299	1.143	1.160	1.180	1.310	100-110	1.010	642.9	50.1,50.1
120	3.501	3.414	3.049	2.661	2.417	2.441	2.639	3.045	110-120	1.938	644.8	50.3,50.3
130	11.34	10.81	9.107	7.569	6.608	6.515	7.819	9.614	120-130	4.565	649.4	50.6,50.6
140	62.43	59.61	48.94	36.66	28.84	28.24	37.37	52.02	130-140	15.68	665.0	51.8,51.8
150	396.2	390.3	330.8	258.5	208.5	210.4	254.6	339.1	140-150	78.59	743.6	58,58
160	703.1	696.5	659.0	623.9	604.1	600.0	631.5	670.7	150-160	227.1	970.7	75.7,75.7
170	959.8	951.9	934.6	912.8	895.8	896.1	916.6	940.5	160-170	220.2	1191	92.8,92.8
180	1002	1002	1002	1002	1002	1002	1002	1002	170-180	92.18	1283	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:LQL  
 Test Date:04 July 2023

g Range: 0 - 180DEG  
 Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=0.9648]  
 Remarks: Edison 10W AC LED

LUMINANCE LIMITATION CURVES

Test:U:230.65V I:0.0942A P:20.335W PF:0.9362 Freq:49.99Hz Lamp Flux:641.542x2 lm		
NAME: Square zuky up&down 2x10W AC LED outdoor	waTYPEight	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1296	465
80	1192	727
75	1049	885
70	1110	896
65	1362	1076
60	1819	1371
55	2765	1988
50	4583	3159
45	9476	5568

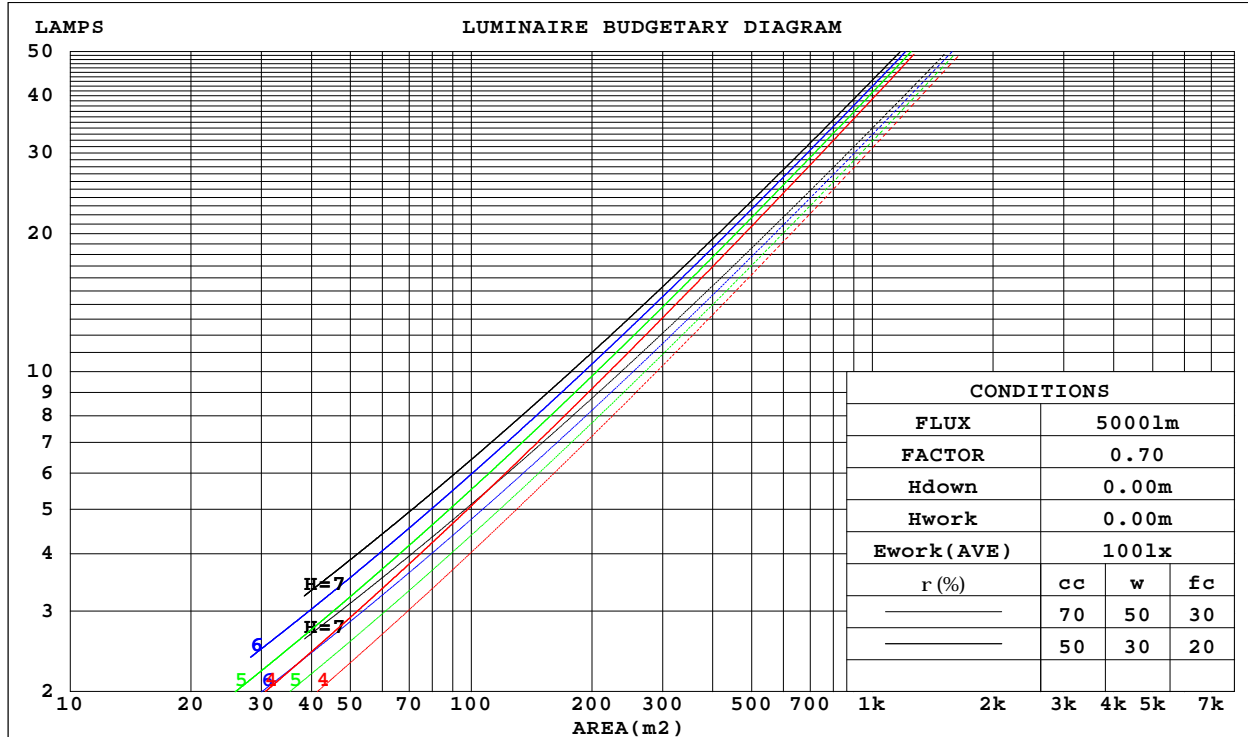
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:LQL  
 Test Date:04 July 2023

G Range: 0 - 180DEG  
 G Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=0.9648]  
 Remarks: Edison 10W AC LED

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.65V I:0.0942A P:20.335W PF:0.9362 Freq:49.99Hz Lamp Flux:641.542x2 lm		
NAME: Square zuky up&down 2x10W AC LED outdoor	waTYPHeight	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

r <sub>cc</sub>	80%			70%			50%			30%			10%			0
r <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.07	1.07	1.07	.99	.99	.99	.83	.83	.83	.69	.69	.69	.56	.56	.56	.50
1.0	.97	.94	.91	.90	.88	.85	.77	.75	.74	.65	.64	.63	.54	.53	.52	.47
2.0	.88	.84	.80	.82	.78	.75	.71	.68	.66	.61	.59	.57	.51	.50	.49	.44
3.0	.81	.75	.71	.75	.71	.67	.66	.62	.60	.57	.54	.52	.48	.47	.46	.42
4.0	.74	.68	.63	.70	.64	.60	.61	.57	.54	.53	.51	.48	.46	.44	.43	.40
5.0	.68	.62	.57	.64	.59	.55	.57	.53	.50	.50	.47	.45	.44	.42	.40	.37
6.0	.63	.57	.52	.60	.54	.50	.53	.49	.46	.47	.44	.42	.41	.39	.38	.35
7.0	.59	.53	.48	.56	.50	.46	.50	.46	.43	.45	.41	.39	.39	.37	.36	.33
8.0	.55	.49	.44	.52	.47	.43	.47	.43	.40	.42	.39	.37	.38	.35	.34	.32
9.0	.52	.45	.41	.49	.44	.40	.44	.40	.37	.40	.37	.35	.36	.34	.32	.30
10.0	.48	.43	.39	.46	.41	.37	.42	.38	.35	.38	.35	.33	.34	.32	.30	.29



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:LQL  
 Test Date:04 July 2023

Range: 0 - 180DEG  
 Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=0.9648]  
 Remarks: Edison 10W AC LED

WEC AND CCEC

Test:U:230.65V I:0.0942A P:20.335W PF:0.9362 Freq:49.99Hz Lamp Flux:641.542x2 lm		
NAME: Square zuky up&down 2x10W AC LED outdoor	waTYPHeight	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.212	.120	.038	.190	.108	.034	.149	.085	.027	.111	.064	.021	.076	.044	.014	
2.0	.197	.108	.033	.177	.098	.030	.140	.078	.024	.106	.059	.019	.074	.042	.013	
3.0	.184	.098	.029	.166	.089	.027	.132	.071	.022	.101	.055	.017	.072	.040	.012	
4.0	.172	.089	.026	.155	.081	.024	.125	.066	.020	.096	.051	.016	.069	.038	.011	
5.0	.161	.082	.024	.146	.075	.022	.118	.061	.018	.091	.048	.014	.067	.036	.011	
6.0	.152	.076	.022	.138	.070	.020	.112	.057	.017	.087	.045	.013	.064	.034	.010	
7.0	.143	.071	.020	.131	.065	.019	.106	.054	.015	.083	.043	.012	.062	.032	.009	
8.0	.136	.066	.019	.124	.061	.017	.101	.051	.014	.080	.040	.012	.060	.031	.009	
9.0	.129	.062	.017	.118	.057	.016	.096	.048	.014	.077	.038	.011	.058	.029	.008	
10.0	.122	.059	.016	.112	.054	.015	.092	.045	.013	.073	.036	.010	.056	.028	.008	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.571	.571	.571	.488	.488	.488	.333	.333	.333	.191	.191	.191	.061	.061	.061	
1.0	.558	.541	.526	.477	.464	.453	.326	.320	.313	.188	.185	.182	.060	.060	.059	
2.0	.546	.519	.496	.468	.447	.429	.321	.309	.299	.185	.180	.175	.059	.058	.057	
3.0	.537	.502	.475	.460	.433	.412	.316	.301	.289	.182	.176	.170	.059	.057	.056	
4.0	.528	.490	.460	.453	.423	.400	.312	.295	.282	.180	.173	.167	.058	.056	.055	
5.0	.521	.480	.449	.447	.415	.391	.308	.290	.276	.179	.170	.164	.058	.056	.054	
6.0	.514	.472	.441	.442	.408	.384	.305	.286	.272	.177	.168	.162	.057	.055	.053	
7.0	.508	.465	.435	.437	.403	.379	.302	.283	.268	.176	.167	.160	.057	.055	.053	
8.0	.503	.460	.430	.433	.399	.375	.300	.280	.266	.174	.165	.158	.056	.054	.052	
9.0	.498	.455	.426	.429	.395	.372	.297	.278	.264	.173	.164	.157	.056	.054	.052	
10.0	.494	.451	.423	.426	.392	.369	.295	.276	.262	.172	.163	.156	.056	.054	.052	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:LQL  
 Test Date:04 July 2023

g Range: 0 - 180DEG  
 g Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=0.9648]  
 Remarks: Edison 10W AC LED

UGR(Unified Glare Rating) Table

Test:U:230.65V I:0.0942A P:20.335W PF:0.9362 Freq:49.99Hz Lamp Flux:641.542x2 lm										
NAME: Square zuky up&down 2x10W AC LED outdoor					waTYPHeight			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: CG LIGHTING					SUR.:			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	12.4	13.1	13.2	13.9	14.9	9.7	10.4	10.5	11.2	12.2
3H	12.1	12.7	13.0	13.6	14.6	9.4	10.0	10.2	10.8	11.9
4H	11.9	12.5	12.8	13.4	14.5	9.2	9.8	10.1	10.7	11.8
6H	11.8	12.3	12.7	13.2	14.3	9.1	9.6	10.0	10.5	11.6
8H	11.7	12.2	12.6	13.1	14.3	9.0	9.5	9.9	10.4	11.5
12H	11.6	12.1	12.6	13.0	14.2	8.9	9.4	9.9	10.3	11.5
4H 2H	11.9	12.5	12.8	13.4	14.5	9.2	9.8	10.1	10.7	11.7
3H	11.6	12.1	12.6	13.0	14.2	8.9	9.4	9.9	10.3	11.5
4H	11.5	11.9	12.4	12.8	14.0	8.8	9.2	9.7	10.1	11.3
6H	11.3	11.7	12.3	12.6	13.8	8.6	9.0	9.6	10.0	11.2
8H	11.2	11.6	12.2	12.5	13.8	8.6	8.9	9.5	9.9	11.1
12H	11.1	11.5	12.1	12.4	13.7	8.5	8.8	9.5	9.8	11.0
8H 4H	11.2	11.5	12.2	12.5	13.7	8.5	8.9	9.5	9.8	11.1
6H	11.0	11.3	12.0	12.3	13.6	8.4	8.7	9.4	9.7	10.9
8H	11.0	11.2	12.0	12.2	13.5	8.3	8.6	9.3	9.6	10.9
12H	10.9	11.1	11.9	12.1	13.4	8.2	8.4	9.3	9.5	10.8
12H 4H	11.1	11.4	12.1	12.4	13.6	8.4	8.8	9.4	9.7	11.0
6H	10.9	11.2	12.0	12.2	13.5	8.3	8.6	9.3	9.6	10.9
8H	10.9	11.1	11.9	12.1	13.4	8.2	8.4	9.3	9.5	10.8
Variations with the observer position at spacings:										
S = 1.0H	+ 3.5 / - 7.2					+ 2.5 / - 6.2				
1.5H	+ 5.6 / - 6.4					+ 4.6 / - 5.1				
2.0H	+ 5.3 / - 3.5					+ 3.7 / - 2.5				

CIE Pub.117, 1283 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.9)

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:LQL  
 Test Date:04 July 2023

g Range: 0 - 180DEG  
 g Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=0.9648]  
 Remarks: Edison 10W AC LED

UTILIZATION FACTORS TABLE

Test:U:230.65V I:0.0942A P:20.335W PF:0.9362 Freq:49.99Hz Lamp Flux:641.542x2 lm		
NAME: Square zuky up&down 2x10W AC LED outdoor	waTYPHeight	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

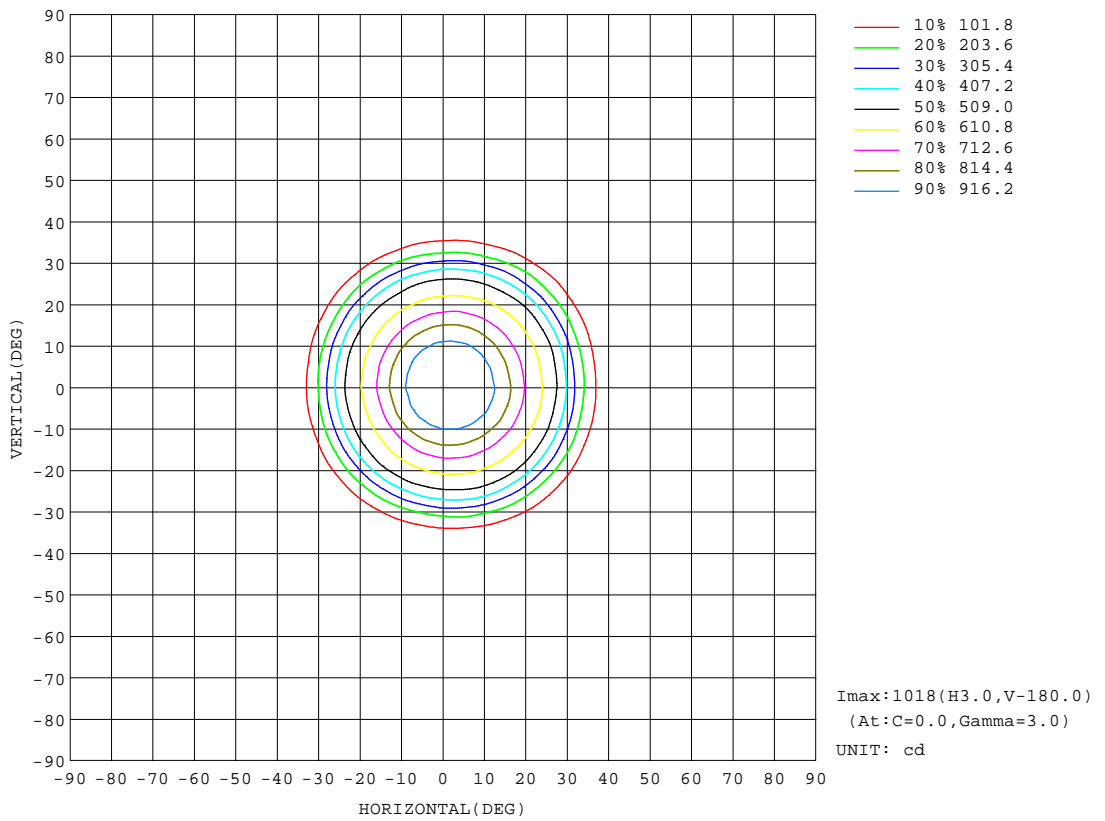
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	60	53	48	58	51	47	53	48	45	38
0.80	68	60	55	65	58	54	59	54	51	42
1.00	74	66	61	70	63	59	63	58	55	44
1.25	79	71	66	75	68	64	66	62	58	45
1.50	83	76	71	78	72	67	69	65	61	47
2.00	88	81	76	82	77	73	72	68	65	47
2.50	91	85	81	85	80	76	74	70	68	48
3.00	94	88	84	87	83	79	75	72	70	48
4.00	97	93	89	90	87	84	77	75	73	49
5.00	99	96	92	92	89	87	79	77	75	50
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:LQL  
 Test Date:04 July 2023

g Range: 0 - 180DEG  
 g Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=0.9648]  
 Remarks: Edison 10W AC LED

ISOCANDELA DIAGRAM

Test:U:230.65V I:0.0942A P:20.335W PF:0.9362 Freq:49.99Hz Lamp Flux:641.542x2 lm		
NAME: Square zuky up&down 2x10W AC LED outdoor	waTYPEight	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:



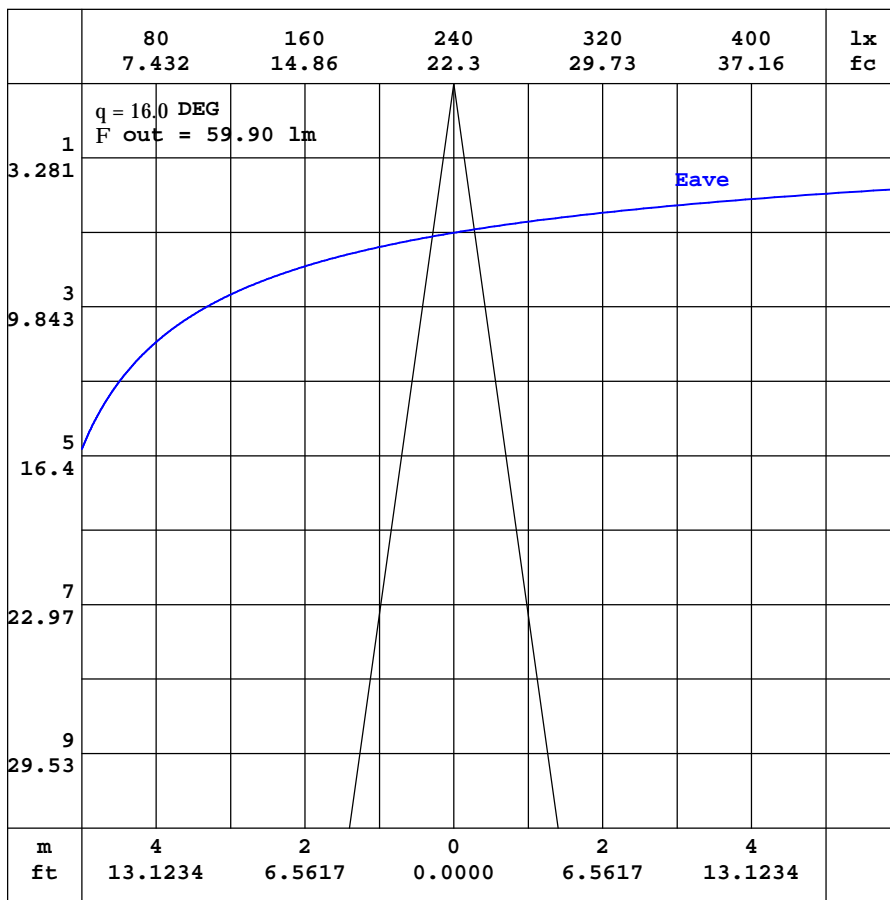
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:LQL  
 Test Date:04 July 2023

Range: 0 - 180DEG  
 Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=0.9648]  
 Remarks: Edison 10W AC LED



AAI CURVES

Test:U:230.65V I:0.0942A P:20.335W PF:0.9362 Freq:49.99Hz Lamp Flux:641.542x2 lm		
NAME: Square zuky up&down 2x10W AC LED outdoor	waTYPEight	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:



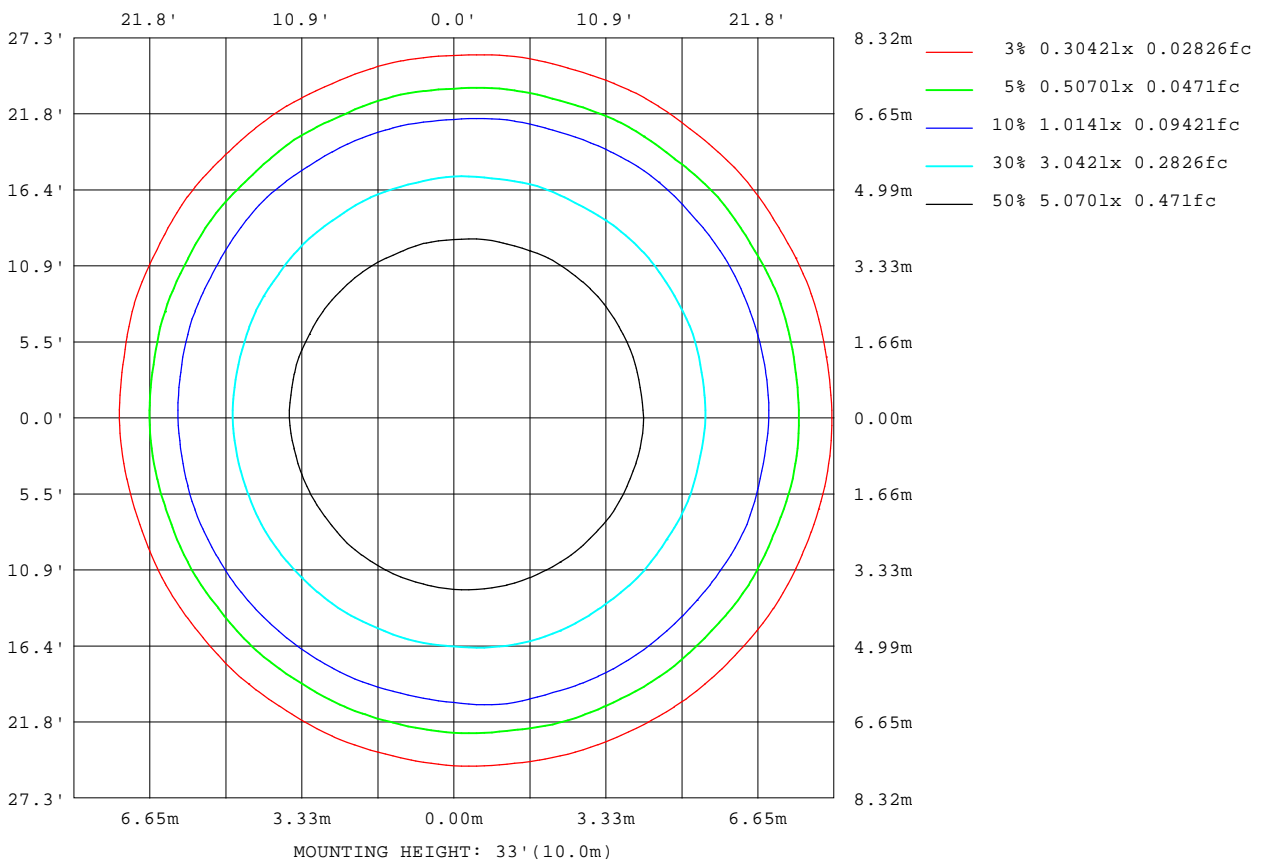
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:LQL  
 Test Date:04 July 2023

Range: 0 - 180DEG  
 Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=0.9648]  
 Remarks: Edison 10W AC LED

**ISOLUX DIAGRAM**

Test:U:230.65V I:0.0942A P:20.335W PF:0.9362 Freq:49.99Hz Lamp Flux:641.542x2 lm		
NAME: Square zuky up&down 2x10W AC LED outdoor	waTYPHeight	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:LQL  
 Test Date:04 July 2023

Page Range: 0 - 180DEG  
 Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=0.9648]  
 Remarks: Edison 10W AC LED

LED Avg.L Report

Test:U:230.65V I:0.0942A P:20.335W PF:0.9362 Freq:49.99Hz Lamp Flux:641.542x2 lm		
NAME: Square zuky up&down 2x10W AC LED outdoor	waTYPEight	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

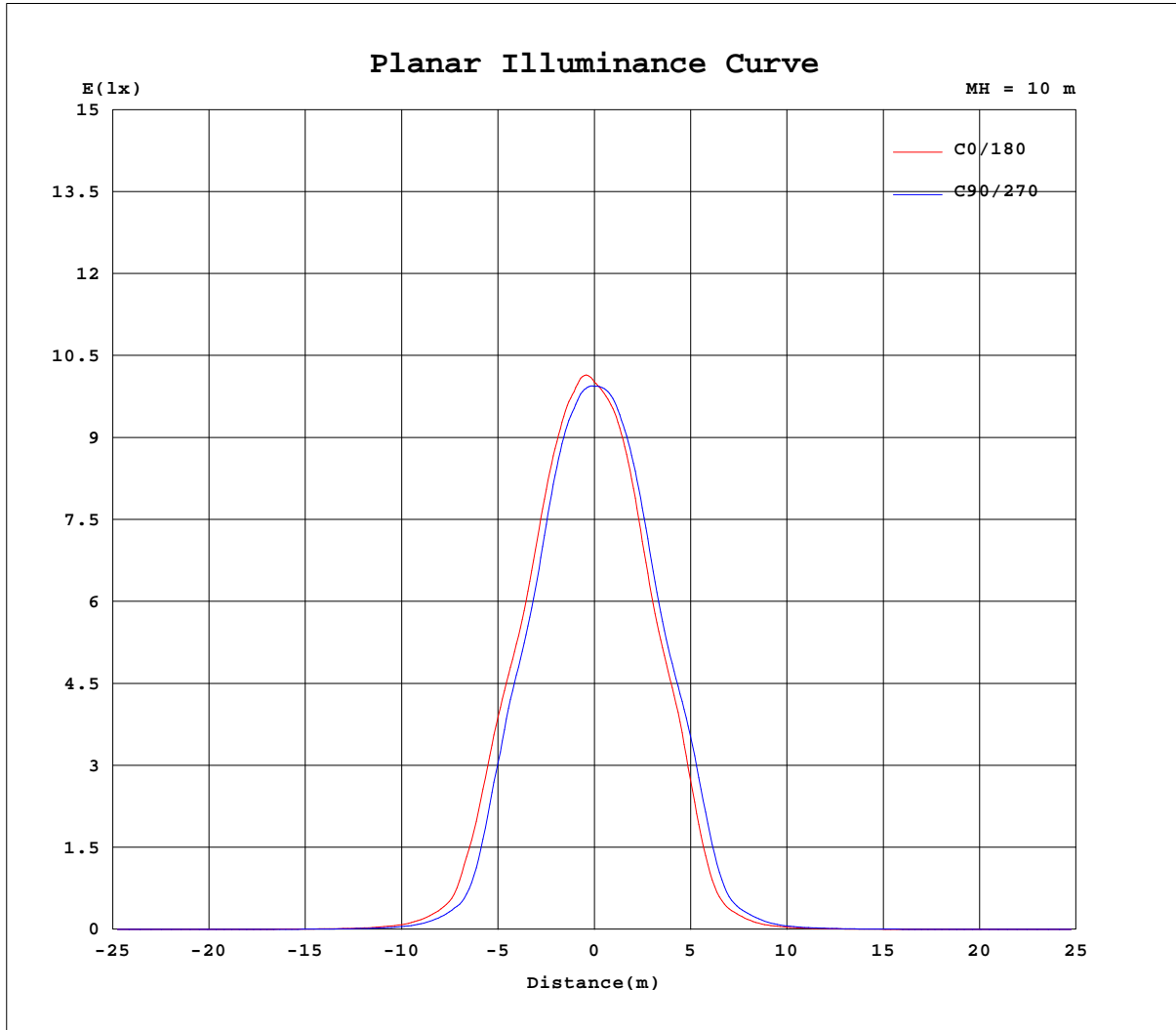
AvgL	cd/m2
L_0~180(65)av	1177
L_0~180(75)av	927
L_0~180(85)av	766
L_90~270(65)av	1162
L_90~270(75)av	1001
L_90~270(85)av	713
L_45(65)av	1163
L_45(75)av	954
L_45(85)av	753

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:LQL  
 Test Date:04 July 2023

g Range: 0 - 180DEG  
 g Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=0.9648]  
 Remarks: Edison 10W AC LED

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators: LQL  
 Test Date: 04 July 2023

Page Range: 0 - 180DEG  
 Interval: 0.5DEG  
 Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.403  
 Humidity: 65.0%  
 Test Distance: 10.365m [K=0.9648]  
 Remarks: Edison 10W AC LED

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.65V I:0.0942A P:20.335W PF:0.9362 Freq:49.99Hz Lamp Flux:641.542x2 lm		
NAME: Square zuky up&down 2x10W AC LED outdoor	waTYPEight	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	1002	1001	1000	1000	1000	1000	999	998	998	998	998	998	998	999	999	999	998	996	994
5	1010	1007	1005	1003	1002	1001	1000	997	994	994	994	992	989	988	987	985	982	981	979
10	960	958	956	954	952	951	950	946	942	941	939	936	932	930	928	924	920	918	917
15	855	854	852	848	843	841	838	832	825	821	818	811	804	800	797	790	784	781	778
20	703	702	699	695	691	688	685	680	675	671	667	661	656	653	650	644	639	635	631
25	587	587	585	580	576	573	569	563	557	553	549	542	534	530	525	517	509	499	491
30	396	395	391	384	376	371	365	355	345	339	333	322	311	303	295	283	271	262	255
35	162	157	154	152	150	143	136	129	123	119	115	109	103	99.8	96.9	92.1	87.7	85.7	84.3
40	62.4	62.3	61.7	60.4	59.0	58.1	57.1	55.2	53.3	52.0	50.7	48.9	47.0	45.5	43.9	41.7	39.7	38.4	37.4
45	25.8	25.8	25.4	24.7	23.9	23.5	23.0	22.1	21.2	20.6	20.1	19.3	18.4	18.0	17.6	16.9	16.1	15.6	15.2
50	11.3	11.4	11.3	11.0	10.7	10.5	10.4	10.1	9.81	9.61	9.42	9.14	8.87	8.72	8.57	8.30	8.04	7.93	7.82
55	6.11	6.12	6.07	5.94	5.80	5.74	5.67	5.53	5.38	5.29	5.22	5.07	4.94	4.87	4.80	4.68	4.55	4.47	4.39
60	3.50	3.49	3.46	3.40	3.34	3.27	3.21	3.15	3.10	3.04	2.99	2.96	2.92	2.87	2.82	2.78	2.74	2.69	2.64
65	2.22	2.17	2.14	2.12	2.11	2.06	2.01	2.00	1.99	1.94	1.89	1.88	1.88	1.85	1.81	1.82	1.83	1.79	1.75
70	1.46	1.42	1.39	1.40	1.40	1.34	1.30	1.32	1.34	1.31	1.28	1.29	1.31	1.27	1.24	1.25	1.26	1.22	1.18
75	1.05	0.98	0.95	0.96	0.97	0.93	0.89	0.93	0.97	0.95	0.93	0.95	0.98	0.94	0.90	0.94	0.97	0.93	0.88
80	0.80	0.73	0.70	0.73	0.76	0.73	0.69	0.71	0.72	0.71	0.69	0.69	0.69	0.64	0.59	0.58	0.57	0.52	0.49
85	0.43	0.40	0.38	0.39	0.40	0.35	0.30	0.33	0.35	0.31	0.26	0.27	0.28	0.24	0.19	0.21	0.23	0.19	0.16
90	0.11	0.10	0.10	0.09	0.10	0.10	0.10	0.09	0.08	0.09	0.10	0.09	0.08	0.09	0.09	0.08	0.07	0.07	0.07
95	0.43	0.44	0.44	0.43	0.41	0.44	0.46	0.44	0.41	0.43	0.44	0.41	0.37	0.39	0.40	0.37	0.33	0.33	0.32
100	0.80	0.82	0.82	0.80	0.78	0.82	0.86	0.83	0.80	0.83	0.86	0.83	0.80	0.81	0.83	0.80	0.77	0.78	0.79
105	1.05	1.06	1.06	1.03	1.01	1.05	1.09	1.04	1.00	1.05	1.11	1.07	1.03	1.07	1.12	1.11	1.08	1.10	1.11
110	1.46	1.48	1.48	1.45	1.42	1.46	1.50	1.46	1.42	1.45	1.47	1.43	1.40	1.43	1.46	1.43	1.39	1.40	1.42
115	2.22	2.23	2.24	2.22	2.21	2.24	2.25	2.22	2.18	2.20	2.22	2.17	2.12	2.12	2.12	2.07	2.03	2.03	2.03
120	3.50	3.52	3.53	3.54	3.54	3.53	3.51	3.48	3.45	3.41	3.38	3.35	3.32	3.29	3.25	3.20	3.15	3.10	3.05
125	6.11	6.11	6.12	6.17	6.19	6.10	6.00	5.98	5.96	5.86	5.75	5.70	5.65	5.54	5.43	5.38	5.31	5.17	5.02
130	11.3	11.4	11.4	11.4	11.5	11.3	11.2	11.1	11.0	10.8	10.6	10.5	10.3	10.1	9.88	9.74	9.59	9.34	9.11
135	25.8	25.7	25.6	25.8	25.8	25.2	24.5	24.4	24.3	23.7	23.1	23.0	22.8	22.0	21.1	20.8	20.4	19.6	18.7
140	62.4	62.0	61.9	62.4	62.8	61.9	60.9	61.0	61.0	59.6	58.1	57.8	57.4	55.4	53.5	53.0	52.6	50.8	48.9
145	162	163	163	163	163	162	161	158	155	154	152	146	140	133	127	124	121	115	110
150	396	397	398	402	405	401	397	396	395	390	385	383	380	372	363	358	353	342	331
155	587	585	585	586	588	586	584	583	582	578	575	574	571	566	560	557	554	548	541
160	703	701	700	702	704	702	700	700	699	697	693	690	688	683	679	675	671	665	659
165	855	850	848	848	849	848	847	848	848	846	843	842	840	837	832	829	826	821	815
170	960	954	952	953	954	953	952	952	953	952	951	950	949	946	943	943	942	938	935
175	1010	1005	1003	1004	1006	1006	1006	1006	1006	1006	1005	1004	1002	999	996	995	994	991	988
180	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:LQL  
 Test Date:04 July 2023

g Range: 0 - 180DEG  
 g Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=0.9648]  
 Remarks: Edison 10W AC LED

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.65V I:0.0942A P:20.335W PF:0.9362 Freq:49.99Hz Lamp Flux:641.542x2 lm		
NAME: Square zuky up&down 2x10W AC LED outdoor	waTYPeight	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) g (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	994	994	994	995	995	995	995	996	995	995	995	996	995	995	994	995	999	1002	1002
5	977	975	975	975	974	972	971	970	967	965	965	965	965	964	963	963	967	971	971
10	912	908	906	905	902	899	899	899	896	894	894	894	891	889	889	889	893	896	895
15	771	765	763	761	756	750	748	746	741	738	738	738	735	733	734	737	741	745	745
20	627	622	619	615	612	608	606	604	600	596	595	595	595	595	596	597	601	604	604
25	486	481	476	470	466	463	459	456	452	449	449	449	446	445	447	449	453	455	457
30	244	235	230	227	225	223	216	210	210	211	206	203	205	208	206	203	205	209	214
35	81.5	78.7	77.2	75.9	73.8	71.9	71.1	70.4	69.2	68.0	67.7	67.5	66.7	66.1	66.4	67.1	68.0	68.9	69.1
40	35.8	34.4	33.4	32.5	31.2	30.1	29.5	29.1	28.2	27.5	27.4	27.4	27.2	27.1	27.5	28.0	28.5	28.8	28.8
45	14.6	14.1	13.8	13.6	13.1	12.7	12.5	12.3	12.0	11.7	11.6	11.7	11.6	11.6	11.7	11.9	12.1	12.2	12.2
50	7.58	7.34	7.27	7.20	6.99	6.78	6.70	6.64	6.52	6.41	6.42	6.45	6.39	6.35	6.41	6.49	6.56	6.61	6.63
55	4.28	4.17	4.11	4.06	3.99	3.92	3.87	3.82	3.78	3.74	3.73	3.73	3.73	3.74	3.75	3.76	3.79	3.83	3.84
60	2.63	2.61	2.57	2.52	2.52	2.52	2.48	2.44	2.44	2.44	2.41	2.38	2.39	2.41	2.41	2.40	2.40	2.42	2.45
65	1.76	1.77	1.73	1.69	1.69	1.69	1.65	1.61	1.63	1.65	1.62	1.59	1.61	1.63	1.62	1.60	1.60	1.61	1.65
70	1.21	1.24	1.20	1.16	1.18	1.21	1.19	1.16	1.16	1.15	1.11	1.08	1.12	1.17	1.18	1.17	1.15	1.14	1.18
75	0.91	0.94	0.91	0.87	0.89	0.90	0.86	0.82	0.83	0.85	0.81	0.78	0.80	0.84	0.82	0.79	0.79	0.80	0.85
80	0.51	0.53	0.50	0.46	0.48	0.50	0.48	0.46	0.46	0.46	0.41	0.38	0.41	0.44	0.41	0.38	0.38	0.40	0.43
85	0.16	0.17	0.14	0.10	0.13	0.15	0.11	0.08	0.11	0.13	0.10	0.07	0.10	0.14	0.11	0.07	0.07	0.08	0.11
90	0.06	0.05	0.06	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06	0.07	0.07	0.07	0.07
95	0.27	0.23	0.24	0.26	0.21	0.17	0.19	0.20	0.17	0.13	0.14	0.15	0.12	0.08	0.11	0.14	0.11	0.08	0.07
100	0.75	0.69	0.67	0.64	0.59	0.54	0.54	0.55	0.51	0.48	0.50	0.52	0.48	0.44	0.45	0.46	0.43	0.40	0.38
105	1.07	1.03	1.05	1.07	1.04	1.00	1.01	1.02	0.96	0.91	0.92	0.94	0.91	0.87	0.89	0.90	0.85	0.80	0.79
110	1.41	1.39	1.39	1.39	1.34	1.30	1.32	1.35	1.30	1.25	1.27	1.28	1.23	1.18	1.20	1.23	1.18	1.14	1.15
115	1.99	1.94	1.93	1.92	1.88	1.84	1.85	1.85	1.80	1.75	1.75	1.75	1.71	1.66	1.67	1.68	1.65	1.61	1.60
120	2.99	2.93	2.90	2.86	2.82	2.77	2.74	2.72	2.66	2.61	2.59	2.58	2.53	2.49	2.49	2.49	2.45	2.42	2.40
125	4.96	4.90	4.79	4.69	4.62	4.55	4.46	4.38	4.32	4.26	4.18	4.10	4.05	4.00	3.93	3.87	3.84	3.83	3.79
130	9.00	8.89	8.64	8.38	8.28	8.18	7.91	7.65	7.57	7.51	7.30	7.09	7.01	6.94	6.79	6.66	6.63	6.61	6.56
135	18.3	17.9	17.2	16.5	16.4	16.2	15.6	15.0	14.8	14.6	14.0	13.4	13.2	13.1	12.7	12.3	12.2	12.2	12.1
140	48.4	47.7	45.5	43.3	42.3	41.4	39.4	37.5	36.7	35.8	33.9	32.1	31.6	31.2	30.0	29.0	28.8	28.8	28.5
145	108	106	101	95.9	94.1	92.6	88.5	84.5	83.3	82.3	79.3	76.3	74.9	73.7	71.6	69.7	69.1	68.9	68.0
150	325	319	307	296	289	283	273	263	259	254	245	236	231	227	224	220	214	209	205
155	537	534	526	518	510	503	500	497	490	483	479	476	470	465	461	458	457	455	453
160	656	653	647	640	638	636	631	627	624	621	617	613	612	611	608	604	604	604	601
165	811	807	800	794	791	788	782	775	772	769	763	757	755	753	749	745	745	745	741
170	934	933	928	924	922	921	918	915	913	911	906	902	901	900	898	895	895	896	893
175	988	987	984	981	980	979	978	977	976	975	974	972	972	973	972	971	971	971	967
180	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:LQL  
 Test Date:04 July 2023

g Range: 0 - 180DEG  
 g Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=0.9648]  
 Remarks: Edison 10W AC LED

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.65V I:0.0942A P:20.335W PF:0.9362 Freq:49.99Hz Lamp Flux:641.542x2 lm		
NAME: Square zuky up&down 2x10W AC LED outdoor	waTYPEight	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

Table--3

UNIT: cd

C(DEG) g (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	1000	1000	1000	1000	999	998	998	998	998	998	998	999	999	999	998	996	994	994	994
5	971	972	973	972	972	974	975	976	977	978	979	980	981	984	987	988	988	991	994
10	895	898	900	901	902	906	911	913	915	918	921	922	924	928	933	934	935	938	942
15	745	749	753	755	757	763	769	772	775	782	788	791	794	800	807	811	815	821	826
20	604	608	611	612	613	617	621	624	627	631	636	638	640	647	653	656	659	665	671
25	458	461	465	470	476	479	483	490	497	500	503	510	518	526	534	537	541	548	554
30	220	224	227	231	236	245	254	259	263	273	283	289	296	307	319	325	331	342	353
35	69.7	71.6	73.7	74.9	76.3	79.3	82.3	83.3	84.5	88.5	92.6	94.1	95.9	101	106	108	110	115	121
40	29.0	30.0	31.2	31.6	32.1	33.9	35.8	36.7	37.5	39.4	41.4	42.3	43.3	45.5	47.7	48.4	48.9	50.8	52.6
45	12.3	12.7	13.1	13.2	13.4	14.0	14.6	14.8	15.0	15.6	16.2	16.4	16.5	17.2	17.9	18.3	18.7	19.6	20.4
50	6.66	6.79	6.94	7.01	7.09	7.30	7.51	7.57	7.65	7.91	8.18	8.28	8.38	8.64	8.89	9.00	9.11	9.34	9.59
55	3.87	3.93	4.00	4.05	4.10	4.18	4.26	4.32	4.38	4.46	4.55	4.62	4.69	4.79	4.90	4.96	5.02	5.17	5.31
60	2.49	2.49	2.49	2.53	2.58	2.59	2.61	2.66	2.72	2.74	2.77	2.82	2.86	2.90	2.93	2.99	3.05	3.10	3.15
65	1.68	1.67	1.66	1.71	1.75	1.75	1.75	1.80	1.85	1.85	1.84	1.88	1.92	1.93	1.94	1.99	2.03	2.03	2.03
70	1.23	1.20	1.18	1.23	1.28	1.27	1.25	1.30	1.35	1.32	1.30	1.34	1.39	1.39	1.39	1.41	1.42	1.40	1.39
75	0.90	0.89	0.87	0.91	0.94	0.92	0.91	0.96	1.02	1.01	1.00	1.04	1.07	1.05	1.03	1.07	1.11	1.10	1.08
80	0.46	0.45	0.44	0.48	0.52	0.50	0.48	0.51	0.55	0.54	0.54	0.59	0.64	0.67	0.69	0.75	0.79	0.78	0.77
85	0.14	0.11	0.08	0.12	0.15	0.14	0.13	0.17	0.20	0.19	0.17	0.21	0.26	0.24	0.23	0.27	0.32	0.33	0.33
90	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.07	0.07
95	0.07	0.11	0.14	0.10	0.07	0.10	0.13	0.11	0.08	0.11	0.15	0.13	0.10	0.14	0.17	0.16	0.16	0.19	0.23
100	0.38	0.41	0.44	0.41	0.38	0.41	0.46	0.46	0.46	0.48	0.50	0.48	0.46	0.50	0.53	0.51	0.49	0.52	0.57
105	0.79	0.82	0.84	0.80	0.78	0.81	0.85	0.83	0.82	0.86	0.90	0.89	0.87	0.91	0.94	0.91	0.88	0.93	0.97
110	1.17	1.18	1.17	1.12	1.08	1.11	1.15	1.16	1.16	1.19	1.21	1.18	1.16	1.20	1.24	1.21	1.18	1.22	1.26
115	1.60	1.62	1.63	1.61	1.59	1.62	1.65	1.63	1.61	1.65	1.69	1.69	1.69	1.73	1.77	1.76	1.75	1.79	1.83
120	2.40	2.41	2.41	2.39	2.38	2.41	2.44	2.44	2.44	2.48	2.52	2.52	2.52	2.57	2.61	2.63	2.64	2.69	2.74
125	3.76	3.75	3.74	3.73	3.73	3.73	3.74	3.78	3.82	3.87	3.92	3.99	4.06	4.11	4.17	4.28	4.39	4.47	4.55
130	6.49	6.41	6.35	6.39	6.45	6.42	6.41	6.52	6.64	6.70	6.78	6.99	7.20	7.27	7.34	7.58	7.82	7.93	8.04
135	11.9	11.7	11.6	11.6	11.7	11.6	11.7	12.0	12.3	12.5	12.7	13.1	13.6	13.8	14.1	14.6	15.2	15.6	16.1
140	28.0	27.5	27.1	27.2	27.4	27.4	27.5	28.2	29.1	29.5	30.1	31.2	32.5	33.4	34.4	35.8	37.4	38.4	39.7
145	67.1	66.4	66.1	66.7	67.5	67.7	68.0	69.2	70.4	71.1	71.9	73.8	75.9	77.2	78.7	81.5	84.3	85.7	87.7
150	203	206	208	205	203	206	211	210	210	216	223	225	227	230	235	244	255	262	271
155	449	447	445	446	449	449	449	452	456	459	463	466	470	476	481	486	491	499	509
160	597	596	595	595	595	595	596	600	604	606	608	612	615	619	622	627	631	635	639
165	737	734	733	735	738	738	738	741	746	748	750	756	761	763	765	771	778	781	784
170	889	889	889	891	894	894	894	896	899	899	899	902	905	906	908	912	917	918	920
175	963	963	964	965	965	965	965	967	970	971	972	974	975	975	975	977	979	981	982
180	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:LQL  
 Test Date:04 July 2023

g Range: 0 - 180DEG  
 g Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=0.9648]  
 Remarks: Edison 10W AC LED

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.65V I:0.0942A P:20.335W PF:0.9362 Freq:49.99Hz Lamp Flux:641.542x2 lm		
NAME: Square zuky up&down 2x10W AC LED outdoor	waTYPEight	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

Table--4

UNIT: cd

C(DEG) g (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	994	995	995	995	995	996	995	995	995	996	995	995	994	995	998				
5	995	996	999	1002	1004	1005	1006	1006	1006	1006	1006	1006	1004	1003	1005				
10	943	943	946	949	950	951	952	953	952	952	953	954	953	952	954				
15	829	832	837	840	842	843	846	848	848	847	848	849	848	848	850				
20	675	679	683	688	690	693	697	699	700	700	702	704	702	700	701				
25	557	560	566	571	574	575	578	582	583	584	586	588	586	585	585				
30	358	363	372	380	383	385	390	395	396	397	401	405	402	398	397				
35	124	127	133	140	146	152	154	155	158	161	162	163	163	163	163				
40	53.0	53.5	55.4	57.4	57.8	58.1	59.6	61.0	61.0	60.9	61.9	62.8	62.4	61.9	62.0				
45	20.8	21.1	22.0	22.8	23.0	23.1	23.7	24.3	24.4	24.5	25.2	25.8	25.8	25.6	25.7				
50	9.74	9.88	10.1	10.3	10.5	10.6	10.8	11.0	11.1	11.2	11.3	11.5	11.4	11.4	11.4				
55	5.38	5.43	5.54	5.65	5.70	5.75	5.86	5.96	5.98	6.00	6.10	6.19	6.17	6.12	6.11				
60	3.20	3.25	3.29	3.32	3.35	3.38	3.41	3.45	3.48	3.51	3.53	3.54	3.54	3.53	3.52				
65	2.07	2.12	2.12	2.12	2.17	2.22	2.20	2.18	2.22	2.25	2.24	2.21	2.22	2.24	2.23				
70	1.43	1.46	1.43	1.40	1.43	1.47	1.45	1.42	1.46	1.50	1.46	1.42	1.45	1.48	1.48				
75	1.11	1.12	1.07	1.03	1.07	1.11	1.05	1.00	1.04	1.09	1.05	1.01	1.03	1.06	1.06				
80	0.80	0.83	0.81	0.80	0.83	0.86	0.83	0.80	0.83	0.86	0.82	0.78	0.80	0.82	0.82				
85	0.37	0.40	0.39	0.37	0.41	0.44	0.43	0.41	0.44	0.46	0.44	0.41	0.43	0.44	0.44				
90	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.07	0.08	0.09	0.09	0.09	0.10				
95	0.21	0.19	0.24	0.28	0.27	0.26	0.31	0.35	0.33	0.30	0.35	0.40	0.39	0.38	0.40				
100	0.58	0.59	0.64	0.69	0.69	0.69	0.71	0.72	0.71	0.69	0.73	0.76	0.73	0.70	0.73				
105	0.94	0.90	0.94	0.98	0.95	0.93	0.95	0.97	0.93	0.89	0.93	0.97	0.96	0.95	0.98				
110	1.25	1.24	1.27	1.31	1.29	1.28	1.31	1.34	1.32	1.30	1.34	1.40	1.40	1.39	1.42				
115	1.82	1.81	1.85	1.88	1.88	1.89	1.94	1.99	2.00	2.01	2.06	2.11	2.12	2.14	2.17				
120	2.78	2.82	2.87	2.92	2.96	2.99	3.04	3.10	3.15	3.21	3.27	3.34	3.40	3.46	3.49				
125	4.68	4.80	4.87	4.94	5.07	5.22	5.29	5.38	5.53	5.67	5.74	5.80	5.94	6.07	6.12				
130	8.30	8.57	8.72	8.87	9.14	9.42	9.61	9.81	10.1	10.4	10.5	10.7	11.0	11.3	11.4				
135	16.9	17.6	18.0	18.4	19.3	20.1	20.6	21.2	22.1	23.0	23.5	23.9	24.7	25.4	25.8				
140	41.7	43.9	45.5	47.0	48.9	50.7	52.0	53.3	55.2	57.1	58.1	59.0	60.4	61.7	62.3				
145	92.1	96.9	99.8	103	109	115	119	123	129	136	143	150	152	154	157				
150	283	295	303	311	322	333	339	345	355	365	371	376	384	391	395				
155	517	525	530	534	542	549	553	557	563	569	573	576	580	585	587				
160	644	650	653	656	661	667	671	675	680	685	688	691	695	699	702				
165	790	797	800	804	811	818	821	825	832	838	841	843	848	852	854				
170	924	928	930	932	936	939	941	942	946	950	951	952	954	956	958				
175	985	987	988	989	992	994	994	994	997	1000	1001	1002	1003	1005	1007				
180	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002				

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 Test Distance:10.365m [K=0.9648]  
 Remarks: Edison 10W AC LED