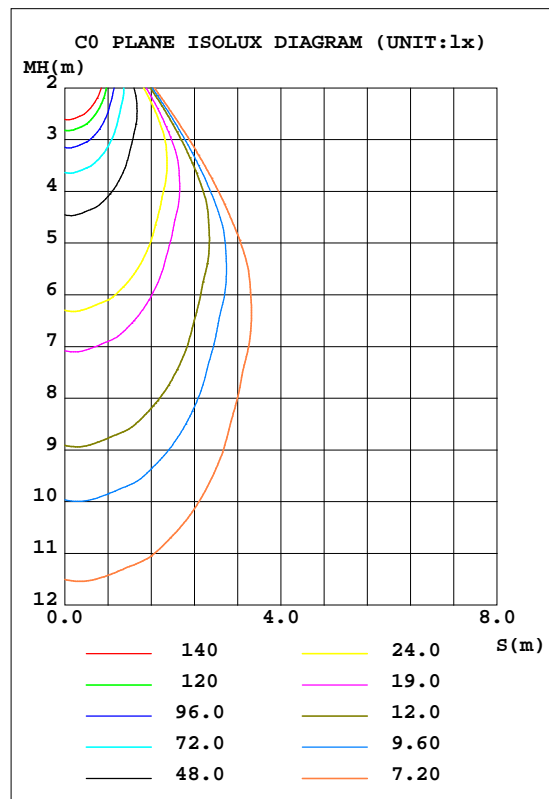
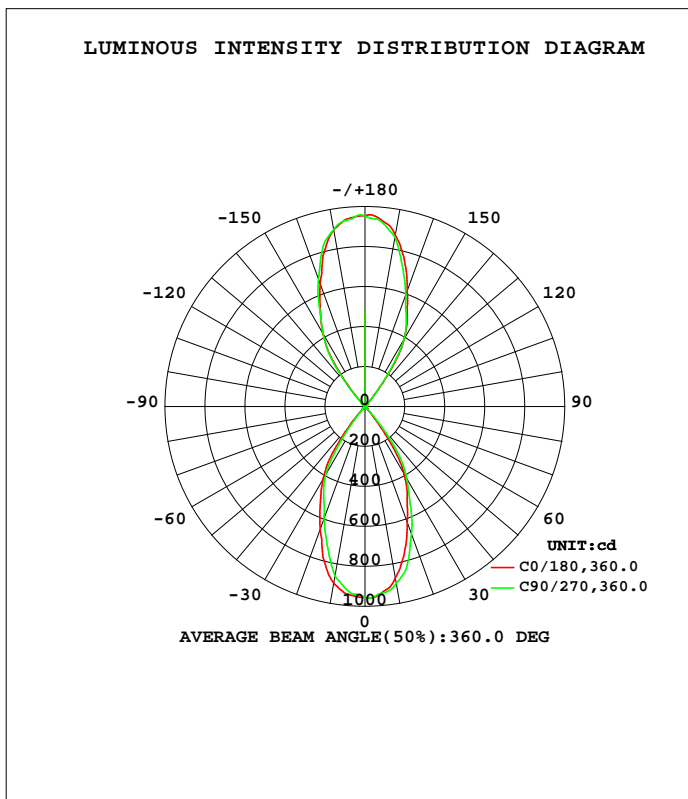


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.63V I:0.0822A P:18.816W PF:0.9928 Freq:49.99Hz Lamp Flux:717.404x2 lm		
NAME: Square zuky up&down 2x10W AC LED outdoor	waTYPEight	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 76.25 lm/W			
MODEL	2068A-S7	I _{max} (cd)	963.8	S/MH(C0/180)	0.82
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.76
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	1434.8	h UP, DN(C0-180)	23.8, 26.2
NOMINAL FLUX(lm)	717.404	CIE CLASS	DIFFUSE	h UP, DN(C180-360)	26.2, 23.8
LAMPS INSIDE	2	h up(%)	50.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	230.0	h down(%)	50.0	CIBSE SHR MAX	0.90



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:LQL
 Test Date:09 August 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: Lumens 2x10W AC LED

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

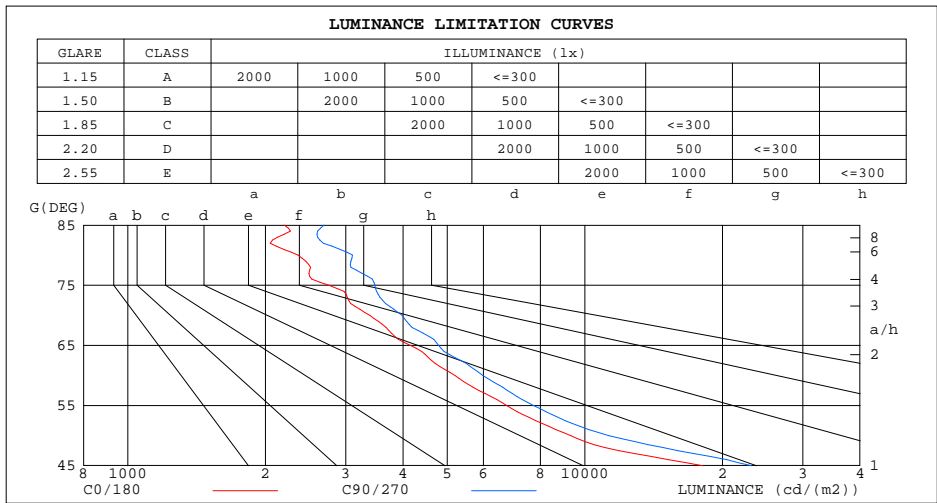
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	873.5	899.8	900.2	905.7	897.5	874.4	862.4	852.5	0- 10	87.74	87.74	6.12,6.12
20	619.9	651.4	680.7	674.0	656.6	624.4	598.8	598.8	10- 20	214.2	302.0	21,21
30	393.5	416.3	419.0	429.0	419.3	407.2	393.2	383.3	20- 30	236.2	538.1	37.5,37.5
40	55.24	79.36	115.0	117.1	93.44	59.99	44.12	42.35	30- 40	152.5	690.6	48.1,48.1
50	7.521	8.175	9.117	9.081	8.832	7.997	6.946	6.799	40- 50	18.48	709.1	49.4,49.4
60	3.263	3.473	3.757	3.682	3.681	3.400	3.083	3.024	50- 60	4.679	713.8	49.7,49.7
70	1.453	1.600	1.711	1.695	1.599	1.503	1.274	1.267	60- 70	2.316	716.1	49.9,49.9
80	0.5144	0.5957	0.6765	0.6689	0.5797	0.5220	0.4620	0.4028	70- 80	1.025	717.1	50,50
90	0.0595	0.0479	0.0595	0.0521	0.0670	0.0898	0.0670	0.0595	80- 90	0.2713	717.4	50,50
100	0.5144	0.4028	0.4620	0.5220	0.5797	0.6689	0.6765	0.5957	90-100	0.2713	717.7	50,50
110	1.453	1.267	1.274	1.503	1.599	1.695	1.711	1.600	100-110	1.025	718.7	50.1,50.1
120	3.263	3.024	3.083	3.400	3.681	3.682	3.757	3.473	110-120	2.316	721.0	50.3,50.3
130	7.521	6.799	6.946	7.997	8.832	9.081	9.117	8.175	120-130	4.679	725.7	50.6,50.6
140	55.24	42.35	44.12	59.99	93.44	117.1	115.0	79.36	130-140	18.48	744.2	51.9,51.9
150	393.5	383.3	393.2	407.2	419.3	429.0	419.0	416.3	140-150	152.5	896.7	62.5,62.5
160	619.9	598.8	598.8	624.4	656.6	674.0	680.7	651.4	150-160	236.2	1133	79,79
170	873.5	852.5	862.4	874.4	897.5	905.7	900.2	899.8	160-170	214.2	1347	93.9,93.9
180	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8	170-180	87.74	1435	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:09 August 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: Lumens 2x10W AC LED

LUMINANCE LIMITATION CURVES

Test:U:230.63V I:0.0822A P:18.816W PF:0.9928 Freq:49.99Hz Lamp Flux:717.404x2 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	2198	2690
80	2358	3102
75	2753	3472
70	3382	3982
65	4152	4786
60	5196	5982
55	6745	7723
50	9316	11292
45	18102	23179

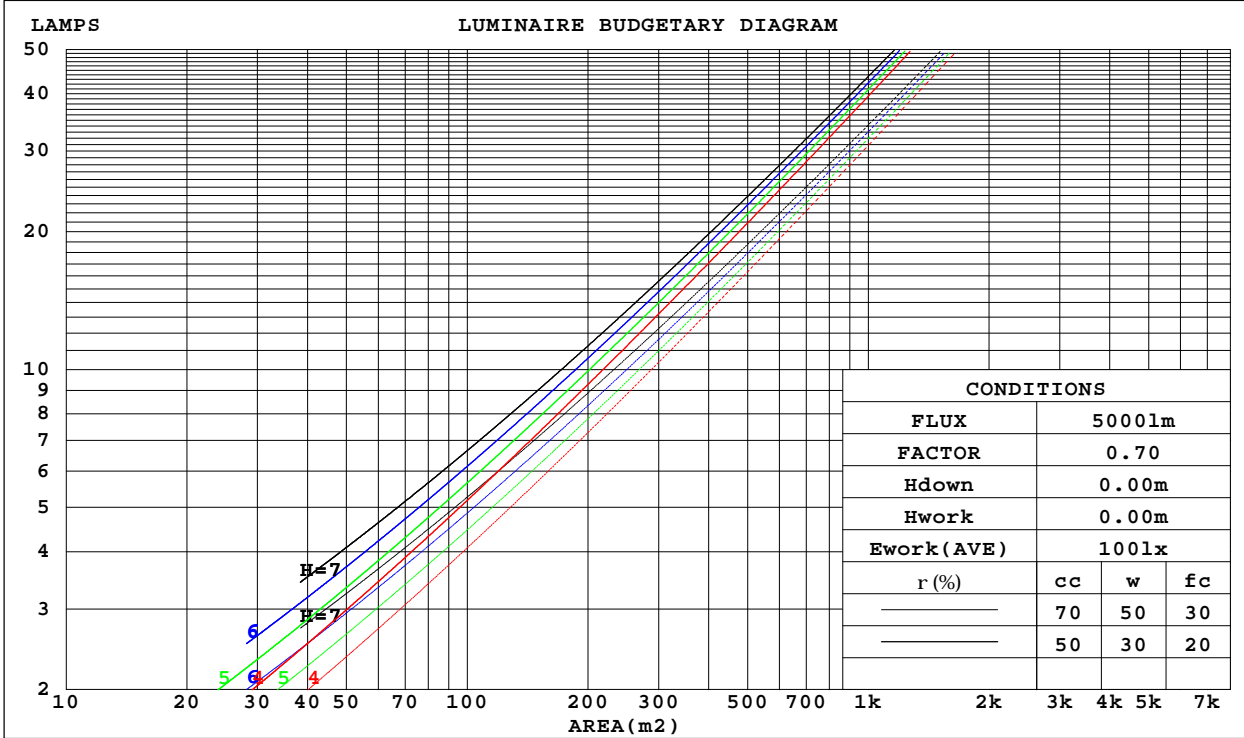
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:LQL
 Test Date:09 August 2023

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: Lumens 2x10W AC LED

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.63V I:0.0822A P:18.816W PF:0.9928 Freq:49.99Hz Lamp Flux:717.404x2 lm		
NAME: Square zuky up&down 2x10W AC LED outdoor	waTYPHeight	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	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	.87	.85	.77	.75	.73	.64	.63	.62	.53	.53	.52	.47
2.0	.88	.83	.79	.82	.78	.74	.71	.68	.65	.60	.58	.57	.50	.49	.48	.44
3.0	.80	.74	.70	.75	.70	.66	.65	.62	.59	.56	.54	.52	.48	.46	.45	.41
4.0	.73	.67	.62	.69	.63	.59	.60	.56	.53	.52	.50	.47	.45	.43	.42	.38
5.0	.67	.61	.56	.63	.58	.54	.56	.52	.49	.49	.46	.44	.43	.41	.39	.36
6.0	.62	.56	.51	.59	.53	.49	.52	.48	.45	.46	.43	.40	.40	.38	.36	.34
7.0	.58	.51	.47	.55	.49	.45	.49	.44	.41	.43	.40	.38	.38	.36	.34	.32
8.0	.54	.47	.43	.51	.45	.41	.46	.41	.38	.41	.37	.35	.36	.34	.32	.30
9.0	.50	.44	.40	.48	.42	.38	.43	.39	.35	.38	.35	.33	.34	.32	.30	.28
10.0	.47	.41	.37	.45	.39	.35	.40	.36	.33	.36	.33	.31	.33	.30	.28	.27



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:LQL
 Test Date:09 August 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: Lumens 2x10W AC LED

WEC AND CCEC

Test:U:230.63V I:0.0822A P:18.816W PF:0.9928 Freq:49.99Hz Lamp Flux:717.404x2 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	.215	.122	.039	.193	.110	.035	.152	.087	.028	.114	.066	.021	.079	.046	.015	
2.0	.201	.110	.034	.181	.100	.031	.144	.080	.025	.109	.061	.019	.078	.044	.014	
3.0	.188	.100	.030	.170	.091	.027	.136	.074	.022	.104	.057	.018	.075	.042	.013	
4.0	.176	.091	.027	.159	.083	.025	.128	.068	.020	.100	.054	.016	.073	.040	.012	
5.0	.165	.084	.024	.150	.077	.022	.122	.063	.019	.095	.050	.015	.070	.038	.011	
6.0	.156	.078	.022	.142	.072	.021	.115	.059	.017	.091	.047	.014	.068	.036	.011	
7.0	.147	.073	.021	.134	.067	.019	.110	.055	.016	.087	.045	.013	.065	.034	.010	
8.0	.139	.068	.019	.127	.063	.018	.105	.052	.015	.083	.042	.012	.063	.032	.009	
9.0	.132	.064	.018	.121	.059	.017	.100	.049	.014	.080	.040	.011	.061	.031	.009	
10.0	.125	.060	.017	.115	.056	.016	.095	.047	.013	.077	.038	.011	.059	.030	.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	.319	.313	.188	.185	.182	.060	.060	.059	
2.0	.547	.519	.496	.468	.447	.429	.321	.309	.299	.185	.180	.175	.059	.058	.057	
3.0	.537	.502	.475	.461	.433	.412	.316	.301	.289	.183	.176	.170	.059	.057	.056	
4.0	.529	.490	.460	.454	.423	.399	.312	.295	.281	.181	.173	.166	.058	.056	.055	
5.0	.522	.480	.449	.448	.415	.390	.309	.290	.276	.179	.170	.164	.058	.056	.054	
6.0	.516	.472	.441	.443	.409	.384	.306	.286	.271	.177	.168	.161	.057	.055	.053	
7.0	.510	.465	.434	.439	.403	.378	.303	.283	.268	.176	.167	.160	.057	.055	.053	
8.0	.505	.460	.429	.434	.399	.374	.301	.280	.266	.175	.165	.158	.057	.054	.052	
9.0	.500	.455	.426	.430	.395	.371	.298	.278	.264	.174	.164	.157	.056	.054	.052	
10.0	.495	.452	.423	.427	.392	.369	.296	.276	.262	.173	.163	.156	.056	.054	.052	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:LQL
 Test Date:09 August 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: Lumens 2x10W AC LED

UGR(Unified Glare Rating) Table

Test:U:230.63V I:0.0822A P:18.816W PF:0.9928 Freq:49.99Hz Lamp Flux:717.404x2 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	17.6	18.4	18.5	19.2	20.2	18.3	19.1	19.2	19.9	20.9
3H	17.3	18.0	18.2	18.8	19.9	18.0	18.7	18.9	19.5	20.6
4H	17.2	17.8	18.1	18.6	19.7	17.9	18.5	18.8	19.3	20.4
6H	17.0	17.6	17.9	18.4	19.6	17.7	18.3	18.6	19.2	20.3
8H	16.9	17.4	17.8	18.3	19.5	17.6	18.2	18.6	19.1	20.2
12H	16.8	17.3	17.8	18.2	19.4	17.5	18.1	18.5	19.0	20.1
4H 2H	17.2	17.8	18.0	18.6	19.7	17.9	18.5	18.8	19.3	20.4
3H	16.8	17.3	17.8	18.2	19.4	17.5	18.0	18.5	19.0	20.1
4H	16.7	17.1	17.6	18.0	19.2	17.4	17.8	18.3	18.8	19.9
6H	16.5	16.9	17.5	17.8	19.0	17.2	17.6	18.2	18.5	19.8
8H	16.4	16.8	17.4	17.7	19.0	17.1	17.5	18.1	18.4	19.7
12H	16.3	16.6	17.3	17.6	18.9	17.0	17.3	18.0	18.3	19.6
8H 4H	16.4	16.7	17.4	17.7	18.9	17.1	17.5	18.1	18.4	19.7
6H	16.2	16.5	17.2	17.5	18.8	16.9	17.2	17.9	18.2	19.5
8H	16.1	16.4	17.1	17.4	18.7	16.8	17.1	17.8	18.1	19.4
12H	16.0	16.2	17.0	17.2	18.6	16.7	16.9	17.8	18.0	19.3
12H 4H	16.3	16.6	17.3	17.6	18.9	17.0	17.3	18.0	18.3	19.6
6H	16.1	16.4	17.1	17.4	18.7	16.8	17.1	17.8	18.1	19.4
8H	16.0	16.2	17.0	17.2	18.6	16.7	16.9	17.8	18.0	19.3
Variations with the observer position at spacings:										
S = 1.0H	+ 4.1 / -10.0					+ 4.2 / -11.7				
1.5H	+ 6.7 / - 8.9					+ 6.9 / -10.7				
2.0H	+ 3.8 / - 2.0					+ 4.5 / - 2.3				

CIE Pub.117, 1435 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.3)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:LQL
 Test Date:09 August 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: Lumens 2x10W AC LED

UTILIZATION FACTORS TABLE

Test:U:230.63V I:0.0822A P:18.816W PF:0.9928 Freq:49.99Hz Lamp Flux:717.404x2 lm		
NAME: Square zuky up&down 2x10W AC LED outdoor	waTYPHeight	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

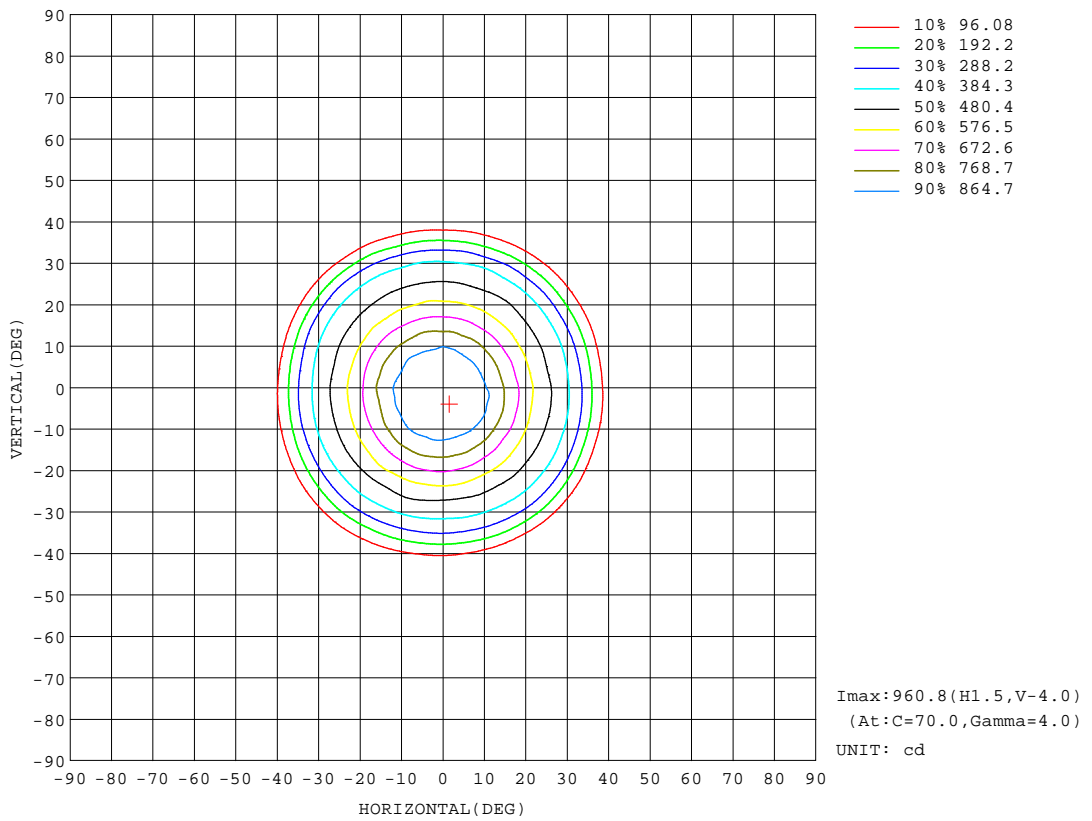
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	60	52	48	58	51	47	53	48	45	38
0.80	68	60	55	65	58	54	59	54	51	42
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:09 August 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: Lumens 2x10W AC LED

ISOCANDELA DIAGRAM

Test:U:230.63V I:0.0822A P:18.816W PF:0.9928 Freq:49.99Hz Lamp Flux:717.404x2 lm		
NAME: Square zuky up&down 2x10W AC LED outdoor	waTYPEight	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

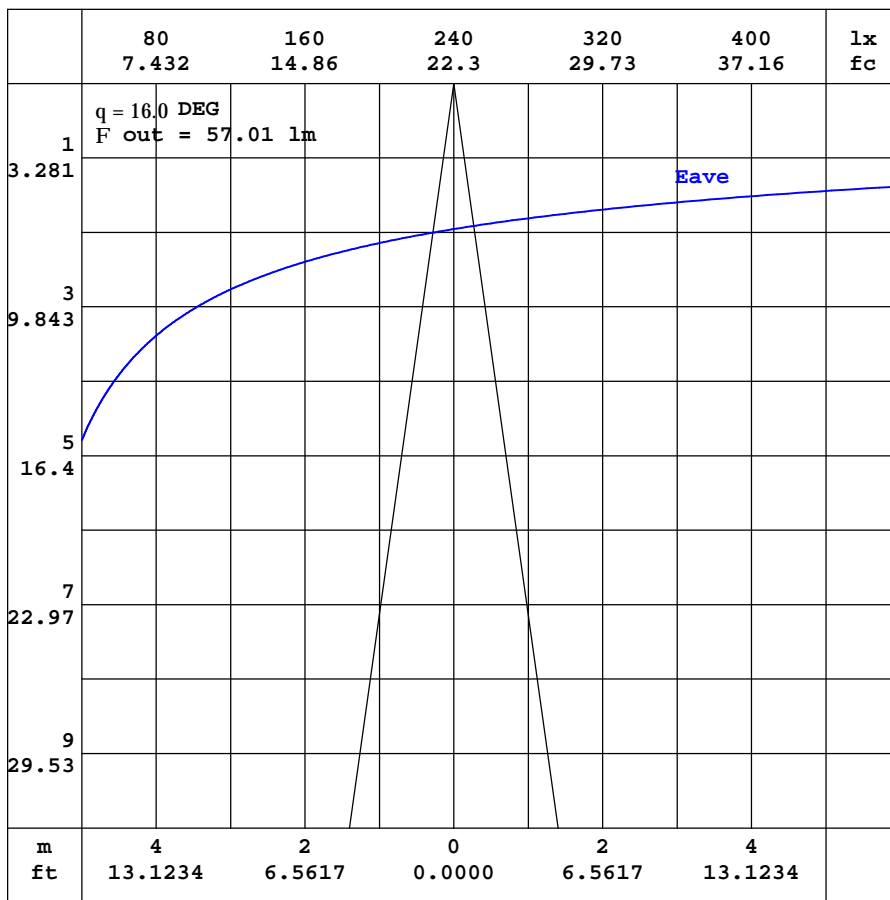


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:LQL
 Test Date:09 August 2023

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: Lumens 2x10W AC LED

AAI CURVES

Test:U:230.63V I:0.0822A P:18.816W PF:0.9928 Freq:49.99Hz Lamp Flux:717.404x2 lm		
NAME: Square zuky up&down 2x10W AC LED outdoor	waTYPHeight	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:



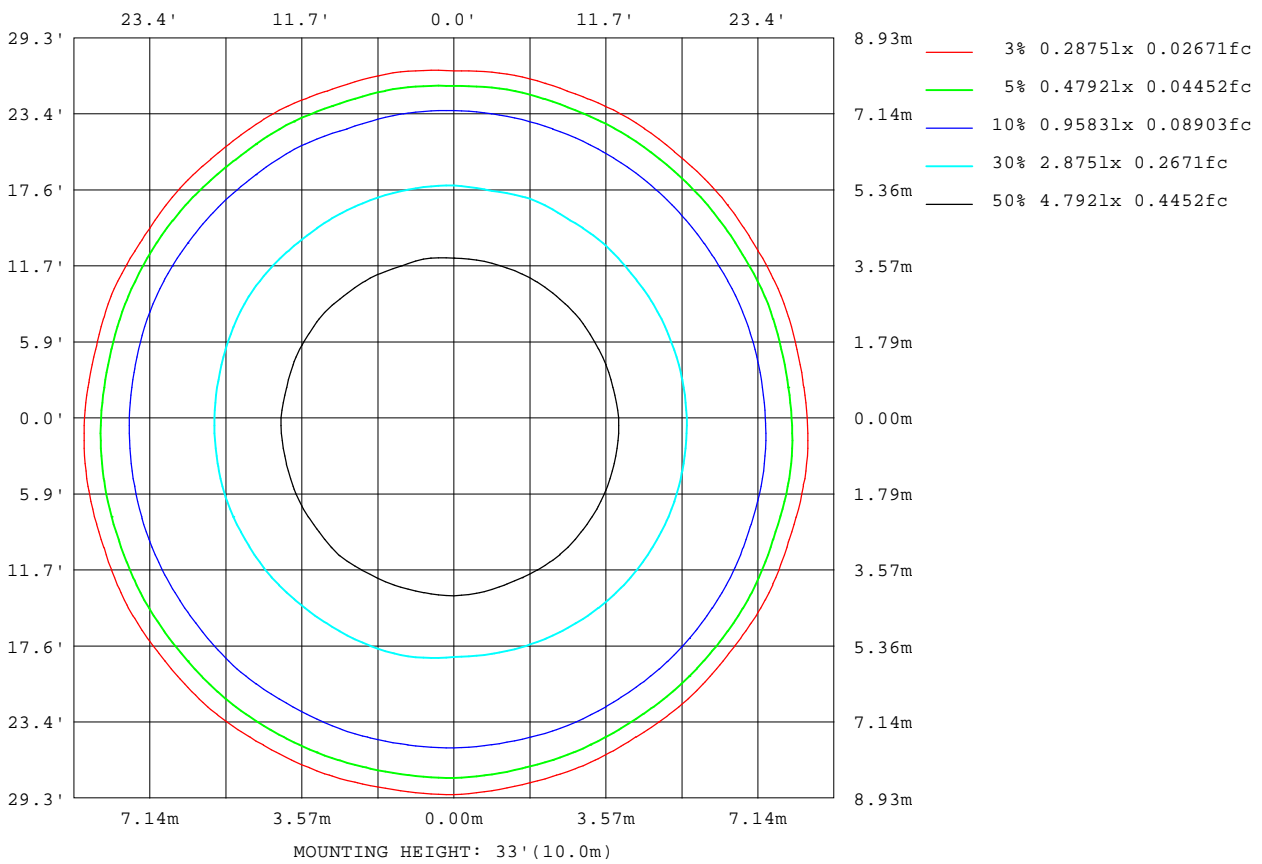
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:LQL
 Test Date:09 August 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: Lumens 2x10W AC LED

ISOLUX DIAGRAM

Test:U:230.63V I:0.0822A P:18.816W PF:0.9928 Freq:49.99Hz Lamp Flux:717.404x2 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:09 August 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: Lumens 2x10W AC LED

LED Avg.L Report

Test:U:230.63V I:0.0822A P:18.816W PF:0.9928 Freq:49.99Hz Lamp Flux:717.404x2 lm		
NAME: Square zuky up&down 2x10W AC LED outdoor	waTYPEight	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

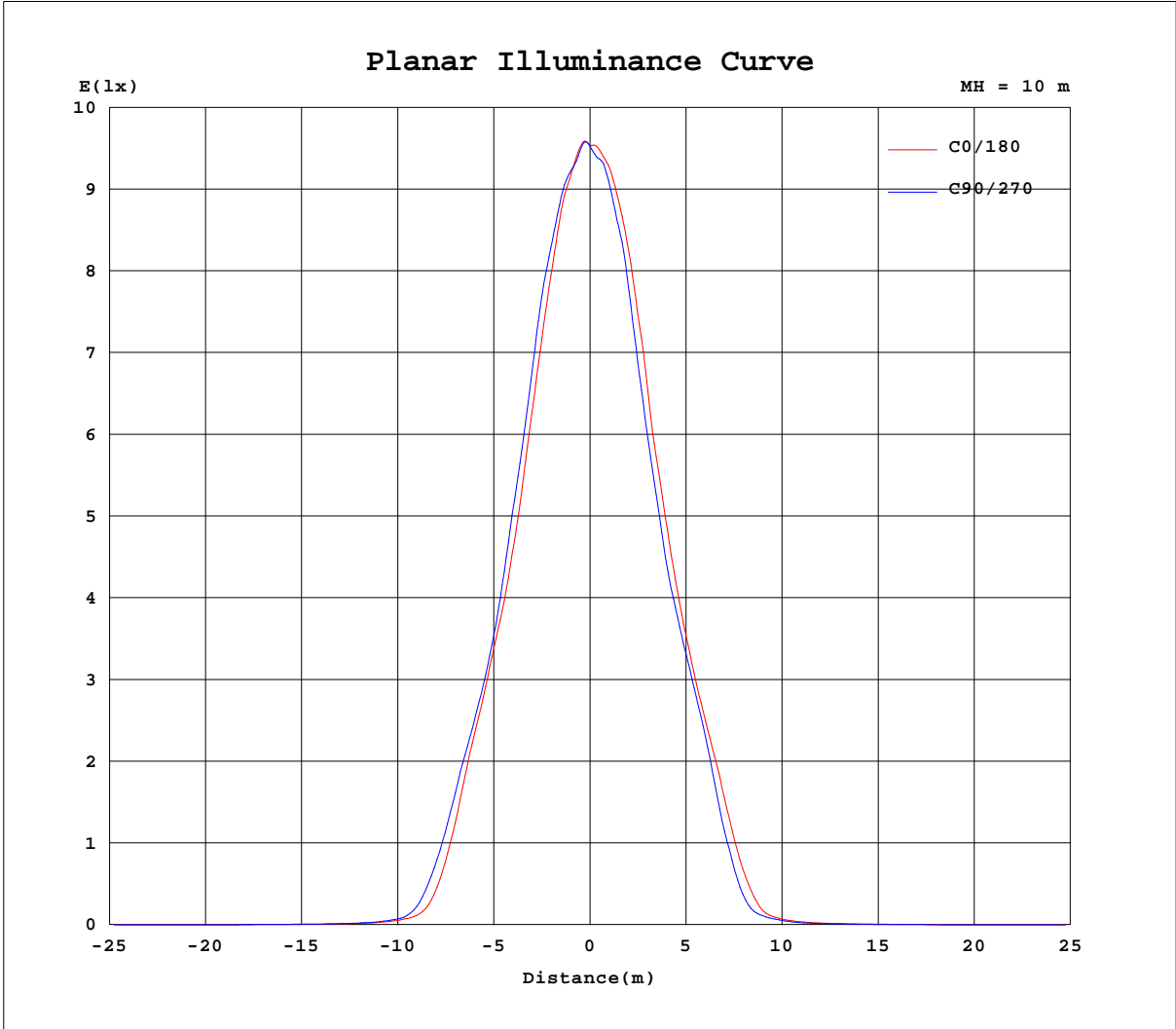
AvgL	cd/m2
L_0~180(65)av	4403
L_0~180(75)av	2928
L_0~180(85)av	2252
L_90~270(65)av	4305
L_90~270(75)av	2993
L_90~270(85)av	2216
L_45(65)av	4292
L_45(75)av	2897
L_45(85)av	2198

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:LQL
 Test Date:09 August 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: Lumens 2x10W AC LED

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: LQL
Test Date: 09 August 2023

Page Range: 0 - 180DEG
Page Interval: 0.5DEG
Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.403
Humidity: 65.0%
Test Distance: 10.365m [K=0.9648]
Remarks: Lumens 2x10W AC LED

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.63V I:0.0822A P:18.816W PF:0.9928 Freq:49.99Hz Lamp Flux:717.404x2 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	953	952	952	955	958	957	956	957	957	957	956	956	955	953	950	950	952	952	953
5	937	943	946	945	943	944	945	945	945	945	945	945	946	950	953	949	943	940	938
10	874	882	888	890	891	893	895	895	896	900	903	902	900	901	903	906	907	903	900
15	761	764	769	775	781	784	787	790	793	797	801	802	803	805	808	810	813	817	820
20	620	627	633	636	637	640	642	645	647	651	655	657	659	664	670	672	673	677	681
25	502	504	506	507	508	510	512	514	516	520	524	525	526	528	531	532	532	534	537
30	394	397	400	403	406	407	409	412	415	416	417	419	420	420	419	418	418	418	419
35	229	236	242	247	251	258	263	268	271	277	282	283	283	285	287	288	289	292	295
40	55.2	58.5	60.7	61.1	62.0	66.5	71.3	72.9	74.5	79.4	84.4	86.7	89.2	94.2	99.4	103	106	111	115
45	16.1	16.5	16.8	16.8	16.8	17.2	17.5	17.6	17.6	18.0	18.5	18.8	19.0	19.5	20.0	19.9	19.8	20.2	20.6
50	7.52	7.56	7.59	7.61	7.64	7.76	7.89	7.94	8.00	8.18	8.36	8.45	8.55	8.74	8.90	8.86	8.82	8.98	9.12
55	4.86	4.91	4.94	4.92	4.91	4.95	4.99	5.00	5.02	5.08	5.16	5.23	5.31	5.42	5.51	5.54	5.54	5.56	5.56
60	3.26	3.33	3.36	3.36	3.36	3.38	3.41	3.43	3.44	3.47	3.51	3.54	3.58	3.65	3.70	3.72	3.72	3.75	3.76
65	2.20	2.22	2.23	2.24	2.26	2.28	2.30	2.31	2.32	2.36	2.41	2.42	2.42	2.48	2.53	2.53	2.53	2.54	2.54
70	1.45	1.47	1.49	1.50	1.52	1.53	1.55	1.56	1.57	1.60	1.63	1.64	1.66	1.70	1.73	1.73	1.72	1.71	1.71
75	0.89	0.91	0.93	0.93	0.94	0.95	0.96	0.95	0.94	0.98	1.02	1.03	1.04	1.09	1.13	1.14	1.14	1.14	1.13
80	0.51	0.52	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.60	0.61	0.61	0.62	0.64	0.66	0.66	0.66	0.67	0.68
85	0.24	0.21	0.20	0.22	0.25	0.23	0.21	0.24	0.28	0.27	0.26	0.28	0.30	0.30	0.30	0.31	0.33	0.31	0.29
90	0.06	0.06	0.05	0.04	0.04	0.04	0.05	0.05	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06
95	0.24	0.23	0.21	0.18	0.15	0.17	0.19	0.17	0.15	0.16	0.18	0.16	0.15	0.16	0.18	0.17	0.16	0.18	0.19
100	0.51	0.48	0.46	0.45	0.44	0.44	0.44	0.42	0.40	0.40	0.41	0.41	0.42	0.43	0.44	0.43	0.43	0.45	0.46
105	0.89	0.90	0.89	0.87	0.85	0.84	0.84	0.82	0.81	0.80	0.79	0.78	0.79	0.80	0.81	0.82	0.83	0.82	0.82
110	1.45	1.43	1.40	1.37	1.35	1.32	1.30	1.29	1.28	1.27	1.26	1.26	1.26	1.26	1.27	1.27	1.28	1.27	1.27
115	2.20	2.15	2.12	2.11	2.11	2.08	2.05	2.04	2.03	2.00	1.98	1.99	2.00	1.99	1.98	2.00	2.02	2.02	2.03
120	3.26	3.21	3.18	3.17	3.16	3.11	3.07	3.06	3.05	3.02	3.00	3.00	3.00	2.98	2.96	3.01	3.06	3.07	3.08
125	4.86	4.77	4.70	4.65	4.62	4.56	4.51	4.49	4.47	4.43	4.41	4.42	4.44	4.42	4.41	4.45	4.50	4.51	4.54
130	7.52	7.30	7.15	7.13	7.12	7.02	6.91	6.88	6.86	6.80	6.74	6.75	6.77	6.75	6.73	6.77	6.83	6.88	6.95
135	16.1	15.5	15.1	15.0	15.0	14.5	14.2	14.2	14.2	13.9	13.7	14.0	14.4	14.5	14.5	14.9	15.2	15.3	15.3
140	55.2	51.1	48.4	47.8	47.5	45.2	43.2	43.4	43.8	42.3	41.2	42.6	44.2	42.9	41.6	43.0	44.5	44.1	44.1
145	229	223	219	216	212	207	202	202	202	201	200	202	203	202	201	205	209	210	210
150	394	391	389	389	388	385	383	382	383	383	383	383	383	390	396	394	391	391	393
155	502	494	490	488	489	488	487	486	486	486	487	489	489	486	484	487	490	491	491
160	620	614	609	607	605	602	600	599	599	599	598	597	597	595	594	594	596	597	599
165	761	752	746	743	741	738	734	732	731	731	730	729	727	727	727	727	727	726	726
170	874	868	864	860	858	856	855	854	853	853	851	847	845	850	856	856	856	860	862
175	937	932	929	928	928	929	930	928	927	930	933	928	923	925	928	928	929	929	930
180	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:LQL
 Test Date:09 August 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: Lumens 2x10W AC LED

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.63V I:0.0822A P:18.816W PF:0.9928 Freq:49.99Hz Lamp Flux:717.404x2 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	953	953	952	951	948	946	947	947	947	946	947	948	948	947	947	947	950	953	952
5	939	942	946	949	944	939	942	945	942	939	940	941	941	940	937	936	940	944	945
10	905	909	907	904	902	902	906	910	906	901	899	898	894	891	890	891	895	897	893
15	819	817	821	824	820	816	818	821	818	814	811	807	803	797	792	790	793	796	790
20	681	681	683	685	683	680	678	676	674	672	668	665	664	663	662	661	659	657	653
25	539	542	546	549	546	543	548	551	547	541	539	538	535	532	530	528	529	530	528
30	426	432	433	431	430	429	428	428	429	430	428	427	428	428	426	423	421	419	418
35	296	296	297	299	300	302	303	303	301	297	295	293	292	291	291	291	287	283	278
40	115	115	116	118	119	120	120	120	117	114	113	111	108	104	102	101	97.7	93.4	87.0
45	20.6	20.5	20.8	21.0	21.0	20.9	20.8	20.7	20.7	20.9	21.2	21.4	20.9	20.3	20.3	20.4	20.3	20.1	19.6
50	9.02	8.90	8.97	9.04	8.96	8.88	8.98	9.10	9.08	9.06	9.16	9.24	9.12	8.97	8.96	8.96	8.92	8.83	8.63
55	5.53	5.49	5.52	5.54	5.51	5.49	5.51	5.54	5.51	5.49	5.54	5.58	5.55	5.51	5.52	5.53	5.52	5.50	5.45
60	3.72	3.69	3.71	3.73	3.68	3.63	3.65	3.68	3.68	3.68	3.70	3.72	3.70	3.67	3.68	3.69	3.69	3.68	3.64
65	2.53	2.52	2.53	2.55	2.54	2.52	2.52	2.51	2.50	2.50	2.53	2.55	2.52	2.49	2.48	2.48	2.48	2.47	2.46
70	1.71	1.72	1.72	1.73	1.73	1.73	1.72	1.71	1.69	1.68	1.70	1.70	1.67	1.62	1.62	1.62	1.61	1.60	1.58
75	1.13	1.12	1.12	1.11	1.12	1.12	1.12	1.11	1.11	1.11	1.12	1.12	1.09	1.06	1.05	1.03	1.02	1.01	0.98
80	0.67	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.67	0.68	0.69	0.69	0.66	0.63	0.63	0.63	0.61	0.58	0.57
85	0.31	0.33	0.32	0.30	0.32	0.34	0.32	0.30	0.31	0.33	0.31	0.29	0.30	0.31	0.30	0.27	0.26	0.25	0.26
90	0.06	0.05	0.05	0.05	0.05	0.04	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.05	0.05	0.06	0.06	0.07	0.07
95	0.18	0.17	0.19	0.21	0.20	0.18	0.20	0.22	0.22	0.21	0.22	0.23	0.22	0.20	0.24	0.27	0.26	0.25	0.26
100	0.46	0.45	0.47	0.48	0.48	0.48	0.49	0.51	0.52	0.53	0.54	0.54	0.55	0.56	0.57	0.57	0.57	0.58	0.61
105	0.83	0.84	0.83	0.83	0.83	0.84	0.85	0.86	0.88	0.91	0.92	0.93	0.95	0.96	0.96	0.96	0.98	1.01	1.02
110	1.30	1.34	1.36	1.39	1.41	1.43	1.45	1.47	1.50	1.52	1.52	1.51	1.52	1.54	1.55	1.56	1.58	1.60	1.61
115	2.06	2.10	2.10	2.11	2.13	2.16	2.18	2.20	2.24	2.29	2.30	2.32	2.36	2.40	2.42	2.44	2.46	2.47	2.48
120	3.12	3.16	3.18	3.21	3.26	3.31	3.33	3.35	3.40	3.44	3.44	3.44	3.51	3.58	3.59	3.60	3.64	3.68	3.69
125	4.60	4.66	4.69	4.73	4.82	4.90	4.93	4.95	5.02	5.10	5.13	5.16	5.22	5.28	5.34	5.39	5.45	5.50	5.52
130	7.06	7.18	7.26	7.36	7.53	7.69	7.76	7.83	8.00	8.13	8.10	8.07	8.19	8.33	8.37	8.43	8.63	8.83	8.92
135	15.9	16.4	16.4	16.5	17.2	17.9	17.9	18.0	18.4	18.8	18.7	18.5	18.9	19.4	19.3	19.2	19.6	20.1	20.3
140	47.0	49.9	49.8	49.9	53.2	56.6	56.8	57.0	60.0	63.3	64.5	66.4	72.3	78.2	79.6	81.1	87.0	93.4	97.7
145	214	218	217	218	226	236	240	245	252	258	261	264	272	278	276	274	278	283	287
150	397	400	397	394	397	402	404	406	407	409	414	418	418	417	417	418	418	419	421
155	490	490	491	493	494	496	499	502	504	506	508	511	513	516	520	524	528	530	529
160	604	607	605	603	607	612	616	620	624	629	632	635	639	643	646	649	653	657	659
165	729	733	740	746	746	745	746	749	755	762	765	768	775	780	782	783	790	796	793
170	858	853	853	856	858	861	864	867	874	880	880	878	878	880	883	887	893	897	895
175	931	932	933	933	932	932	933	934	934	934	934	935	937	939	942	944	945	944	940
180	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:LQL
 Test Date:09 August 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: Lumens 2x10W AC LED

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.63V I:0.0822A P:18.816W PF:0.9928 Freq:49.99Hz Lamp Flux:717.404x2 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	952	955	958	957	956	957	957	957	956	956	955	953	950	950	952	952	953	953	953
5	944	942	939	937	935	934	934	934	934	933	932	932	933	933	932	931	930	929	929
10	887	883	880	878	878	880	880	874	867	864	861	858	856	853	853	858	862	860	856
15	783	782	780	775	768	765	762	755	749	746	745	746	746	740	733	729	726	726	727
20	649	646	643	639	635	632	629	624	620	616	612	607	603	605	607	604	599	597	596
25	524	520	516	513	511	508	506	504	502	499	496	494	493	491	490	490	491	491	490
30	418	417	417	418	418	414	409	407	406	404	402	397	394	397	400	397	393	391	391
35	274	276	278	272	264	261	258	252	245	240	236	226	218	217	218	214	210	210	209
40	81.1	79.6	78.2	72.3	66.4	64.5	63.3	60.0	57.0	56.8	56.6	53.2	49.9	49.8	49.9	47.0	44.1	44.1	44.5
45	19.2	19.3	19.4	18.9	18.5	18.7	18.8	18.4	18.0	17.9	17.9	17.2	16.5	16.4	16.4	15.9	15.3	15.3	15.2
50	8.43	8.37	8.33	8.19	8.07	8.10	8.13	8.00	7.83	7.76	7.69	7.53	7.36	7.26	7.18	7.06	6.95	6.88	6.83
55	5.39	5.34	5.28	5.22	5.16	5.13	5.10	5.02	4.95	4.93	4.90	4.82	4.73	4.69	4.66	4.60	4.54	4.51	4.50
60	3.60	3.59	3.58	3.51	3.44	3.44	3.44	3.40	3.35	3.33	3.31	3.26	3.21	3.18	3.16	3.12	3.08	3.07	3.06
65	2.44	2.42	2.40	2.36	2.32	2.30	2.29	2.24	2.20	2.18	2.16	2.13	2.11	2.10	2.10	2.06	2.03	2.02	2.02
70	1.56	1.55	1.54	1.52	1.51	1.52	1.52	1.50	1.47	1.45	1.43	1.41	1.39	1.36	1.34	1.30	1.27	1.27	1.28
75	0.96	0.96	0.96	0.95	0.93	0.92	0.91	0.88	0.86	0.85	0.84	0.83	0.83	0.83	0.84	0.83	0.82	0.82	0.83
80	0.57	0.57	0.56	0.55	0.54	0.54	0.53	0.52	0.51	0.49	0.48	0.48	0.48	0.47	0.45	0.46	0.46	0.45	0.43
85	0.27	0.24	0.20	0.22	0.23	0.22	0.21	0.22	0.22	0.20	0.18	0.20	0.21	0.19	0.17	0.18	0.19	0.18	0.16
90	0.07	0.08	0.09	0.09	0.08	0.09	0.10	0.09	0.08	0.09	0.09	0.09	0.08	0.09	0.09	0.08	0.07	0.07	0.08
95	0.27	0.30	0.31	0.30	0.29	0.31	0.33	0.31	0.30	0.32	0.34	0.32	0.30	0.32	0.33	0.31	0.29	0.31	0.33
100	0.63	0.63	0.63	0.66	0.69	0.69	0.68	0.67	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.67	0.68	0.67	0.66
105	1.03	1.05	1.06	1.09	1.12	1.12	1.11	1.11	1.11	1.12	1.12	1.12	1.11	1.12	1.12	1.13	1.13	1.14	1.14
110	1.62	1.62	1.62	1.67	1.70	1.70	1.68	1.69	1.71	1.72	1.73	1.73	1.73	1.72	1.72	1.71	1.71	1.71	1.72
115	2.48	2.48	2.49	2.52	2.55	2.53	2.50	2.50	2.51	2.52	2.52	2.54	2.55	2.53	2.52	2.53	2.54	2.54	2.53
120	3.69	3.68	3.67	3.70	3.72	3.70	3.68	3.68	3.68	3.65	3.63	3.68	3.73	3.71	3.69	3.72	3.76	3.75	3.72
125	5.53	5.52	5.51	5.55	5.58	5.54	5.49	5.51	5.54	5.51	5.49	5.51	5.54	5.52	5.49	5.53	5.56	5.56	5.54
130	8.96	8.96	8.97	9.12	9.24	9.16	9.06	9.08	9.10	8.98	8.88	8.96	9.04	8.97	8.90	9.02	9.12	8.98	8.82
135	20.4	20.3	20.3	20.9	21.4	21.2	20.9	20.7	20.7	20.8	20.9	21.0	21.0	20.8	20.5	20.6	20.6	20.2	19.8
140	101	102	104	108	111	113	114	117	120	120	120	119	118	116	115	115	111	111	106
145	291	291	291	292	293	295	297	301	303	303	302	300	299	297	296	296	295	292	289
150	423	426	428	428	427	428	430	429	428	428	429	430	431	433	432	426	419	418	418
155	528	530	532	535	538	539	541	547	551	548	543	546	549	546	542	539	537	534	532
160	661	662	663	664	665	668	672	674	676	678	680	683	685	683	681	681	681	677	673
165	790	792	797	803	807	811	814	818	821	818	816	820	824	821	817	819	820	817	813
170	891	890	891	894	898	899	901	906	910	906	902	902	904	907	909	905	900	903	907
175	936	937	940	941	941	940	939	942	945	942	939	944	949	946	942	939	938	940	943
180	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:LQL
 Test Date:09 August 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: Lumens 2x10W AC LED

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.63V I:0.0822A P:18.816W PF:0.9928 Freq:49.99Hz Lamp Flux:717.404x2 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	952	951	948	946	947	947	947	946	947	948	948	947	947	947	949				
5	928	928	925	923	928	933	930	927	928	930	929	928	928	929	932				
10	856	856	850	845	847	851	853	853	854	855	856	858	860	864	868				
15	727	727	727	727	729	730	731	731	732	734	738	741	743	746	752				
20	594	594	595	597	597	598	599	599	599	600	602	605	607	609	614				
25	487	484	486	489	489	487	486	486	486	487	488	489	488	490	494				
30	394	396	390	383	383	383	383	383	382	383	385	388	389	389	391				
35	205	201	202	203	202	200	201	202	202	202	207	212	216	219	223				
40	43.0	41.6	42.9	44.2	42.6	41.2	42.3	43.8	43.4	43.2	45.2	47.5	47.8	48.4	51.1				
45	14.9	14.5	14.5	14.4	14.0	13.7	13.9	14.2	14.2	14.2	14.5	15.0	15.0	15.1	15.5				
50	6.77	6.73	6.75	6.77	6.75	6.74	6.80	6.86	6.88	6.91	7.02	7.12	7.13	7.15	7.30				
55	4.45	4.41	4.42	4.44	4.42	4.41	4.43	4.47	4.49	4.51	4.56	4.62	4.65	4.70	4.77				
60	3.01	2.96	2.98	3.00	3.00	3.00	3.02	3.05	3.06	3.07	3.11	3.16	3.17	3.18	3.21				
65	2.00	1.98	1.99	2.00	1.99	1.98	2.00	2.03	2.04	2.05	2.08	2.11	2.11	2.12	2.15				
70	1.27	1.27	1.26	1.26	1.26	1.26	1.27	1.28	1.29	1.30	1.32	1.35	1.37	1.40	1.43				
75	0.82	0.81	0.80	0.79	0.78	0.79	0.80	0.81	0.82	0.84	0.84	0.85	0.87	0.89	0.90				
80	0.43	0.44	0.43	0.42	0.41	0.41	0.40	0.40	0.42	0.44	0.44	0.44	0.45	0.46	0.48				
85	0.17	0.18	0.16	0.15	0.16	0.18	0.16	0.15	0.17	0.19	0.17	0.15	0.18	0.21	0.23				
90	0.07	0.06	0.06	0.07	0.06	0.05	0.06	0.07	0.06	0.05	0.06	0.06	0.06	0.05	0.05				
95	0.31	0.30	0.30	0.30	0.28	0.26	0.27	0.28	0.24	0.21	0.23	0.25	0.22	0.20	0.21				
100	0.66	0.66	0.64	0.62	0.61	0.61	0.60	0.58	0.57	0.56	0.55	0.54	0.53	0.52	0.52				
105	1.14	1.13	1.09	1.04	1.03	1.02	0.98	0.94	0.95	0.96	0.95	0.94	0.93	0.93	0.91				
110	1.73	1.73	1.70	1.66	1.64	1.63	1.60	1.57	1.56	1.55	1.53	1.52	1.50	1.49	1.47				
115	2.53	2.53	2.48	2.42	2.42	2.41	2.36	2.32	2.31	2.30	2.28	2.26	2.24	2.23	2.22				
120	3.72	3.70	3.65	3.58	3.54	3.51	3.47	3.44	3.43	3.41	3.38	3.36	3.36	3.36	3.33				
125	5.54	5.51	5.42	5.31	5.23	5.16	5.08	5.02	5.00	4.99	4.95	4.91	4.92	4.94	4.91				
130	8.86	8.90	8.74	8.55	8.45	8.36	8.18	8.00	7.94	7.89	7.76	7.64	7.61	7.59	7.56				
135	19.9	20.0	19.5	19.0	18.8	18.5	18.0	17.6	17.6	17.5	17.2	16.8	16.8	16.8	16.5				
140	103	99.4	94.2	89.2	86.7	84.4	79.4	74.5	72.9	71.3	66.5	62.0	61.1	60.7	58.5				
145	288	287	285	283	283	282	277	271	268	263	258	251	247	242	236				
150	418	419	420	420	419	417	416	415	412	409	407	406	403	400	397				
155	532	531	528	526	525	524	520	516	514	512	510	508	507	506	504				
160	672	670	664	659	657	655	651	647	645	642	640	637	636	633	627				
165	810	808	805	803	802	801	797	793	790	787	784	781	775	769	764				
170	906	903	901	900	902	903	900	896	895	895	893	891	890	888	882				
175	949	953	950	946	945	945	945	945	945	945	944	943	945	946	943				
180	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
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 Temperature:25.3DEG
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