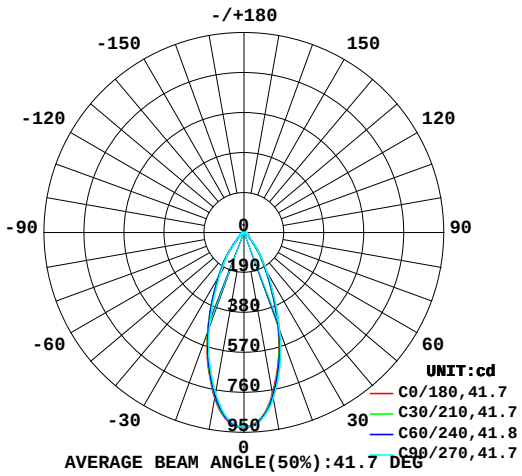
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.20V I:0.0445A P:9.1461W PF:0.8929 Freq:49.99Hz Lamp Flux:592.05x1 lm		
NAME: Milan wall ceiling spot 7.5W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

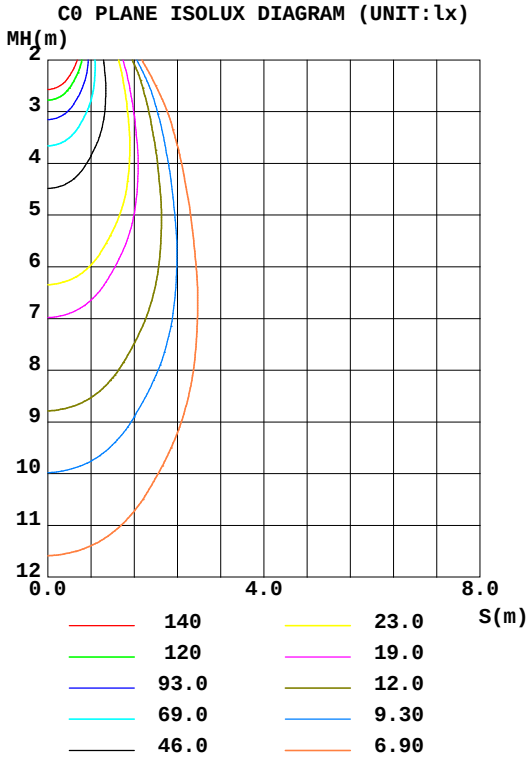
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 64.73 lm/W	
MODEL	N1715A-SR	Imax(cd)	926.4	S/MH(C0/180)	0.68
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.66
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	592.05	h UP,DN(C0-180)	0.0,50.0
NOMINAL FLUX(lm)	592.05	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,50.0
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	230.0	h down(%)	100.0	CIBSE SHR MAX	0.70

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):41.7 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LQL
Test Date:05 March 2018

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.403
Humidity:65.0%
Test Distance:10.320m [K=1.0000]
Remarks: ZG1 BGE 30KH0 LIC9W500UNI

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	778.5	790.1	801.9	803.6	799.6	791.5	777.5	775.3	0- 10	81.97	81.97	13.8,13.8
20	472.5	480.8	497.1	507.0	506.3	497.3	483.8	474.8	10- 20	178.2	260.1	43.9,43.9
30	207.4	210.4	224.9	237.2	245.4	240.1	226.1	213.4	20- 30	156.3	416.4	70.3,70.3
40	75.34	77.29	82.76	86.81	91.31	90.02	83.54	76.73	30- 40	92.55	509.0	86,86
50	23.72	24.26	24.21	24.16	24.84	25.35	24.13	23.50	40- 50	34.30	543.3	91.8,91.8
60	17.69	17.67	17.67	17.51	17.75	18.15	18.04	17.76	50- 60	18.29	561.6	94.9,94.9
70	13.18	13.14	13.08	12.90	12.88	13.12	13.20	13.18	60- 70	14.90	576.5	97.4,97.4
80	7.732	7.929	8.070	8.013	7.941	7.895	7.730	7.617	70- 80	11.46	587.9	99.3,99.3
90	0.0141	0.0106	0.0141	0.0352	0.0564	0.0352	0.0423	0.0352	80- 90	4.115	592.0	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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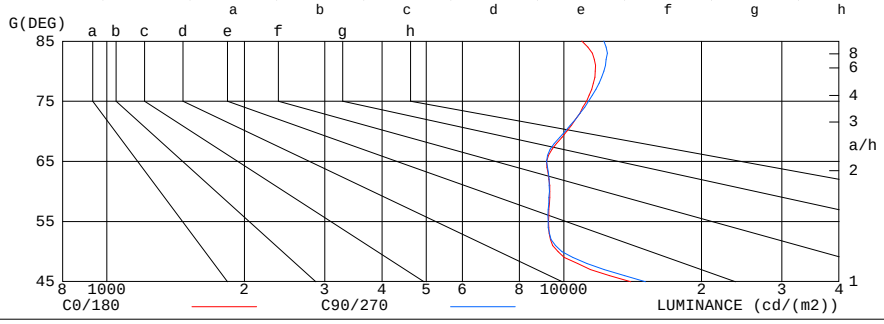
LUMINANCE LIMITATION CURVES

Test:U:230.20V I:0.0445A P:9.1461W PF:0.8929 Freq:49.99Hz Lamp Flux:592.05x1 lm		
NAME: Milan wall ceiling spot 7.5W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	10948	12231
80	11717	12230
75	11213	11332
70	10142	10067
65	9175	9169
60	9313	9300
55	9253	9242
50	9712	9911
45	14004	15082

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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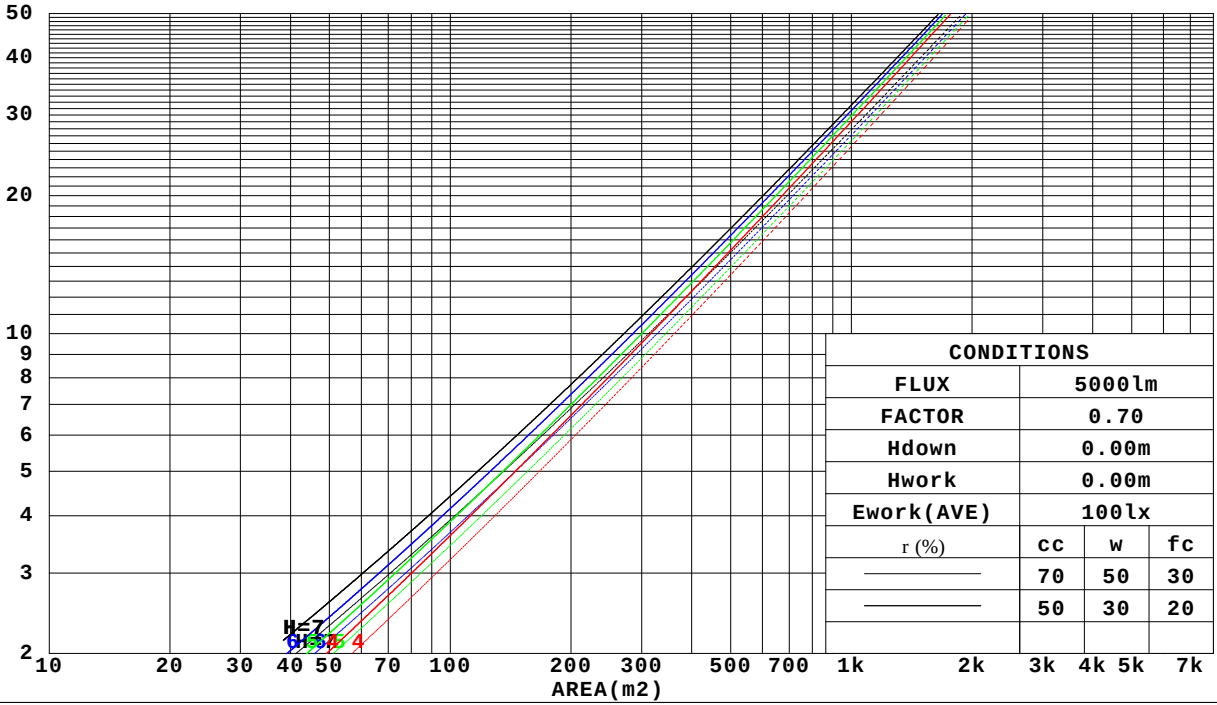
rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.10	1.07	1.05	1.08	1.05	1.03	1.03	1.01	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.02	.97	.94	.00	.96	.92	.97	.93	.90	.94	.91	.88	.91	.89	.87	.85
3.0	.94	.89	.85	.93	.88	.84	.90	.86	.83	.88	.84	.82	.86	.83	.80	.79
4.0	.88	.82	.78	.87	.82	.78	.85	.80	.77	.83	.79	.76	.81	.78	.75	.73
5.0	.83	.77	.72	.82	.76	.72	.80	.75	.71	.78	.74	.71	.77	.73	.70	.69
6.0	.78	.72	.67	.77	.71	.67	.76	.70	.67	.74	.70	.66	.73	.69	.66	.64
7.0	.73	.67	.63	.73	.67	.63	.72	.66	.63	.70	.66	.62	.69	.65	.62	.61
8.0	.70	.64	.59	.69	.63	.59	.68	.63	.59	.67	.62	.59	.66	.62	.59	.57
9.0	.66	.60	.56	.65	.60	.56	.65	.59	.56	.64	.59	.56	.63	.59	.55	.54
10.0	.63	.57	.53	.62	.57	.53	.61	.56	.53	.61	.56	.53	.60	.56	.53	.51

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



CONDITIONS			
FLUX	5000lm		
FACTOR	0.70		
Hdown	0.00m		
Hwork	0.00m		
Ework(AVE)	100lx		
r (%)	cc	w	fc
———	70	50	30
———	50	30	20

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WEC AND CCEC

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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 Coeffcients(WEC)									
0.0																
1.0	.198	.112	.036	.191	.109	.035	.178	.102	.033	.166	.096	.031	.156	.090	.029	
2.0	.185	.102	.031	.180	.099	.030	.169	.094	.029	.159	.089	.028	.150	.085	.027	
3.0	.173	.092	.028	.169	.090	.027	.159	.086	.026	.151	.083	.025	.143	.079	.024	
4.0	.163	.085	.025	.159	.083	.025	.151	.080	.024	.143	.077	.023	.136	.074	.023	
5.0	.153	.078	.023	.150	.077	.022	.143	.074	.022	.136	.072	.021	.130	.070	.021	
6.0	.145	.073	.021	.142	.072	.021	.136	.069	.020	.130	.067	.020	.125	.066	.019	
7.0	.137	.068	.019	.134	.067	.019	.129	.065	.019	.124	.064	.018	.119	.062	.018	
8.0	.130	.064	.018	.128	.063	.018	.123	.061	.018	.119	.060	.017	.114	.059	.017	
9.0	.124	.060	.017	.122	.059	.017	.118	.058	.016	.114	.057	.016	.110	.056	.016	
10.0	.119	.057	.016	.117	.056	.016	.113	.055	.016	.109	.054	.015	.106	.053	.015	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.173	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.158	.132	.111	.135	.114	.096	.093	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.146	.114	.088	.125	.098	.076	.086	.068	.053	.050	.040	.032	.016	.013	.010	
4.0	.136	.099	.071	.116	.086	.062	.080	.060	.044	.046	.035	.026	.015	.011	.008	
5.0	.127	.088	.059	.109	.076	.051	.075	.053	.036	.043	.031	.021	.014	.010	.007	
6.0	.119	.078	.049	.102	.068	.043	.071	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.112	.071	.042	.096	.061	.036	.067	.043	.026	.039	.025	.015	.013	.008	.005	
8.0	.106	.064	.036	.091	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.101	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.096	.055	.027	.083	.048	.024	.057	.033	.017	.033	.020	.010	.011	.006	.003	

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Humidity:65.0%
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Remarks: ZG1 BGE 30KH0 LIC9W500UNI

UGR(Unified Glare Rating) Table

Test:U:230.20V I:0.0445A P:9.1461W PF:0.8929 Freq:49.99Hz Lamp Flux:592.05x1 lm		
NAME: Milan wall ceiling spot 7.5W	TYPE:	WEIGHT:
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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	19.4	20.4	19.6	20.5	20.7	19.5	20.5	19.8	20.7	20.9
	3H	20.4	21.3	20.7	21.5	21.7	20.5	21.4	20.8	21.6	21.8
	4H	21.1	22.0	21.4	22.2	22.4	21.2	22.0	21.5	22.3	22.5
	6H	21.8	22.6	22.1	22.8	23.1	21.9	22.7	22.2	22.9	23.2
	8H	22.0	22.8	22.3	23.1	23.3	22.1	22.9	22.4	23.2	23.4
	12H	22.2	23.0	22.5	23.2	23.5	22.3	23.1	22.7	23.4	23.6
4H	2H	19.7	20.5	19.9	20.7	21.0	19.8	20.6	20.1	20.9	21.1
	3H	21.0	21.8	21.3	22.0	22.3	21.1	21.8	21.4	22.1	22.4
	4H	21.9	22.6	22.3	22.9	23.2	22.0	22.7	22.3	23.0	23.3
	6H	22.8	23.4	23.2	23.7	24.1	22.8	23.5	23.2	23.8	24.1
	8H	23.1	23.7	23.5	24.0	24.4	23.2	23.8	23.6	24.1	24.5
	12H	23.4	23.9	23.8	24.2	24.6	23.5	24.0	23.9	24.4	24.8
8H	4H	22.3	22.8	22.7	23.2	23.6	22.3	22.9	22.7	23.2	23.6
	6H	23.3	23.8	23.7	24.2	24.6	23.4	23.9	23.8	24.3	24.7
	8H	23.8	24.2	24.2	24.6	25.0	23.9	24.3	24.3	24.7	25.1
	12H	24.1	24.5	24.6	24.9	25.4	24.2	24.6	24.7	25.0	25.5
12H	4H	22.3	22.8	22.7	23.2	23.6	22.4	22.9	22.8	23.2	23.6
	6H	23.4	23.8	23.9	24.3	24.7	23.5	23.9	23.9	24.3	24.8
	8H	23.9	24.3	24.4	24.7	25.2	24.0	24.4	24.5	24.8	25.3

Variations with the observer position at spacings:		
S = 1.0H	+ 0.5 / - 0.5	+ 0.6 / - 0.6
1.5H	+ 1.2 / - 0.5	+ 1.4 / - 0.5
2.0H	+ 0.3 / - 0.2	+ 0.3 / - 0.2

CIE Pub.117, 592.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.8)

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UTILIZATION FACTORS TABLE

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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	83	76	72	82	76	72	82	75	71	67
0.80	91	84	80	90	84	80	89	83	79	75
1.00	96	89	85	95	89	85	93	89	84	80
1.25	100	94	90	99	93	89	97	92	89	84
1.50	103	97	93	102	97	93	99	95	92	87
2.00	106	101	98	105	100	97	102	98	95	90
2.50	108	104	100	107	102	99	103	100	97	91
3.00	110	106	103	108	105	102	105	102	100	93
4.00	112	109	106	110	107	105	107	104	102	95
5.00	114	111	109	112	109	107	108	106	104	96
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

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ISOCANDELA DIAGRAM

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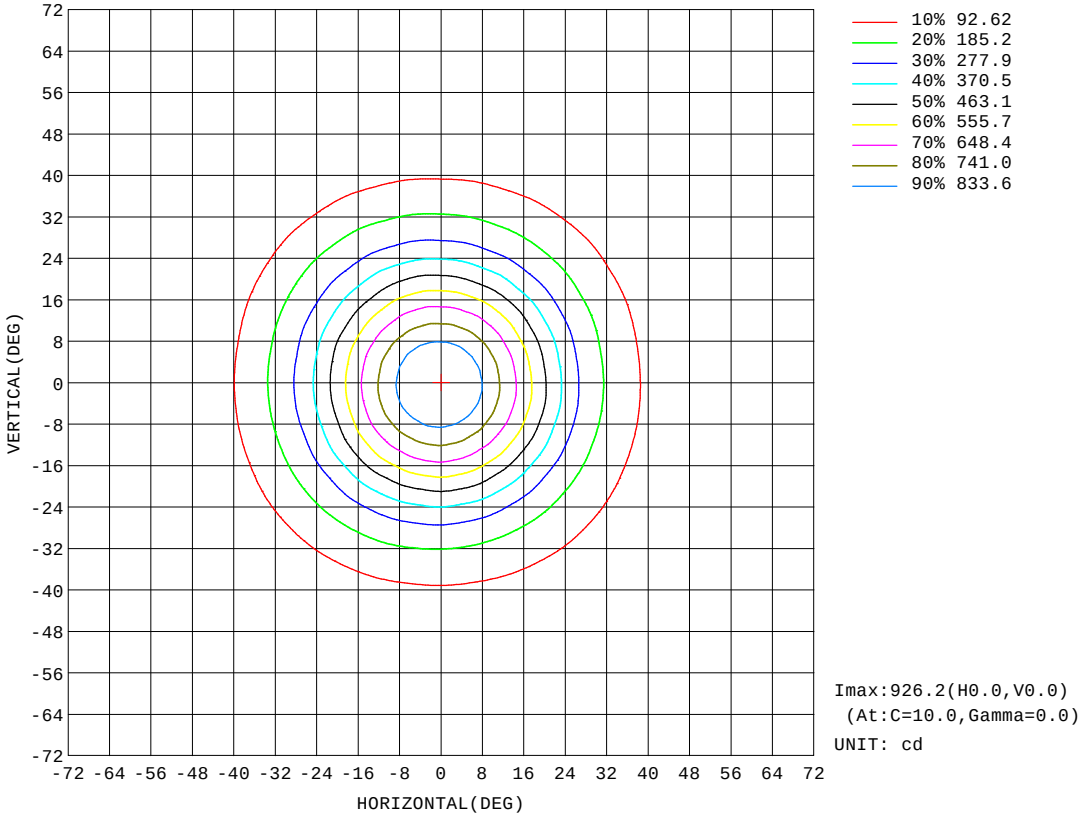

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AAI CURVES

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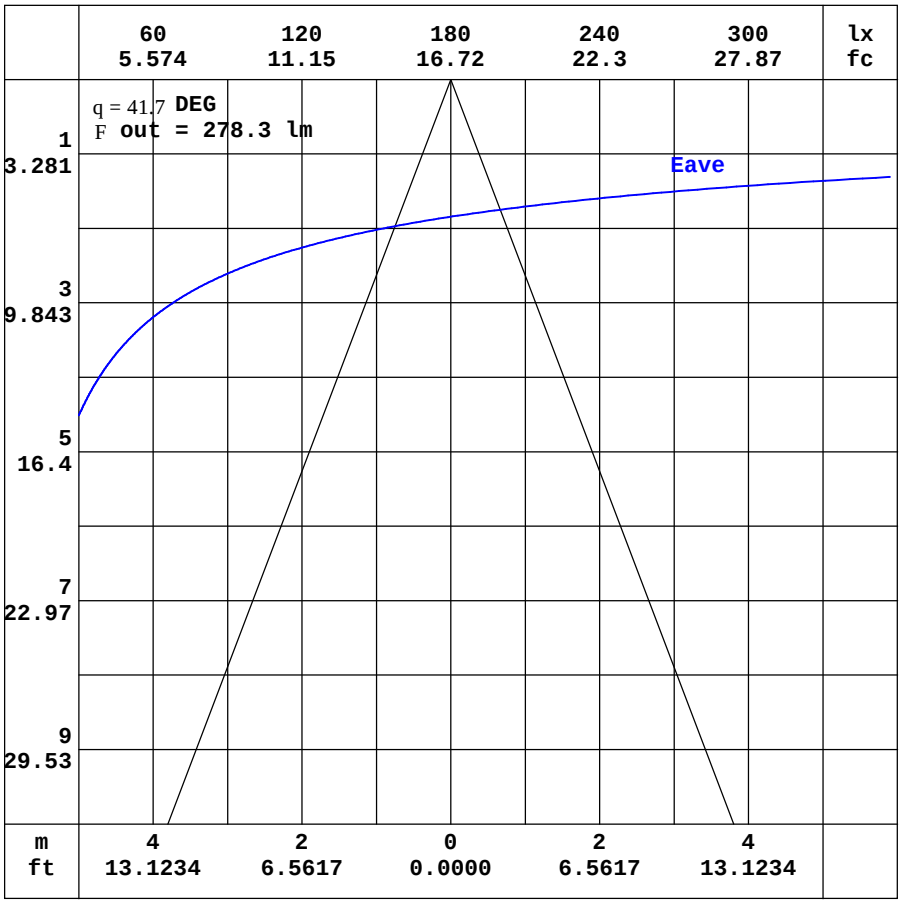

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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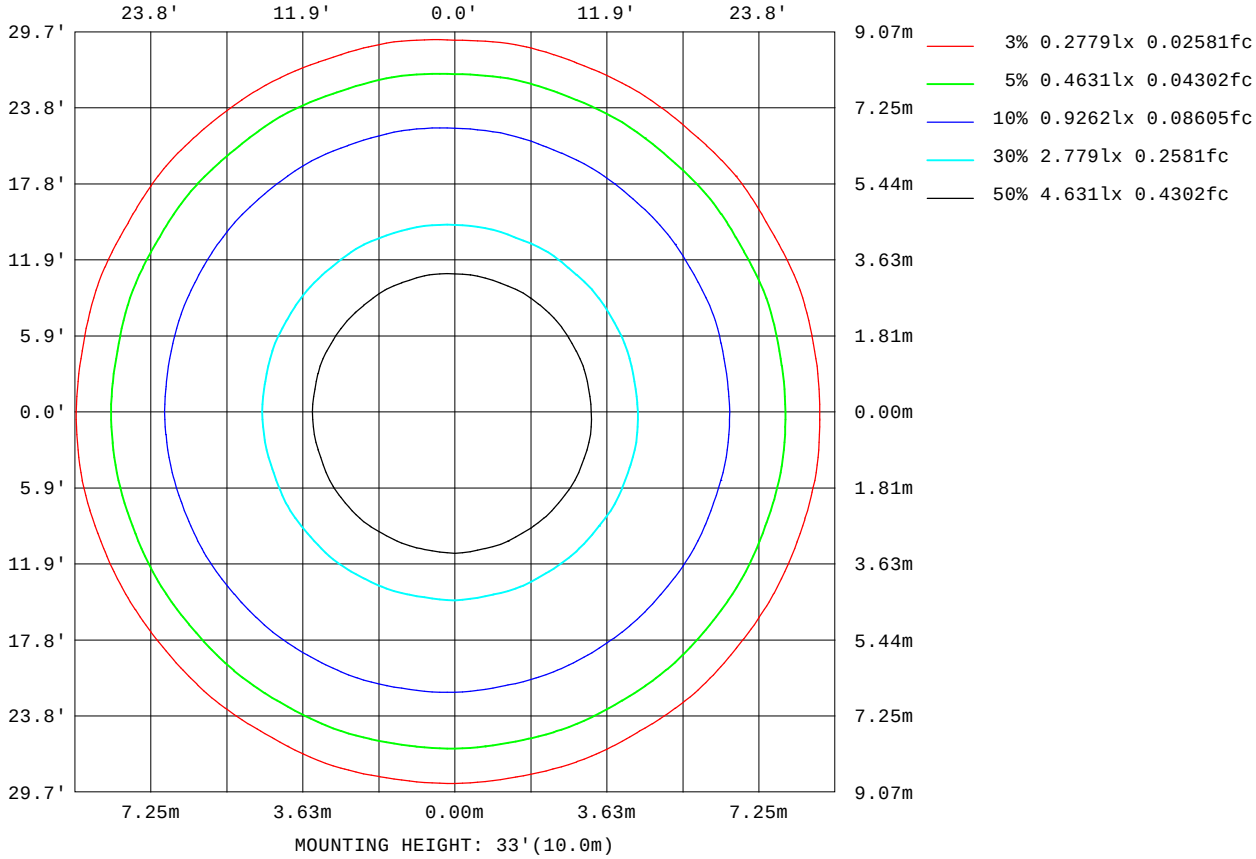
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LQL
Test Date:05 March 2018

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.403
Humidity:65.0%
Test Distance:10.320m [K=1.0000]
Remarks: ZG1 BGE 30KH0 LIC9W500UNI

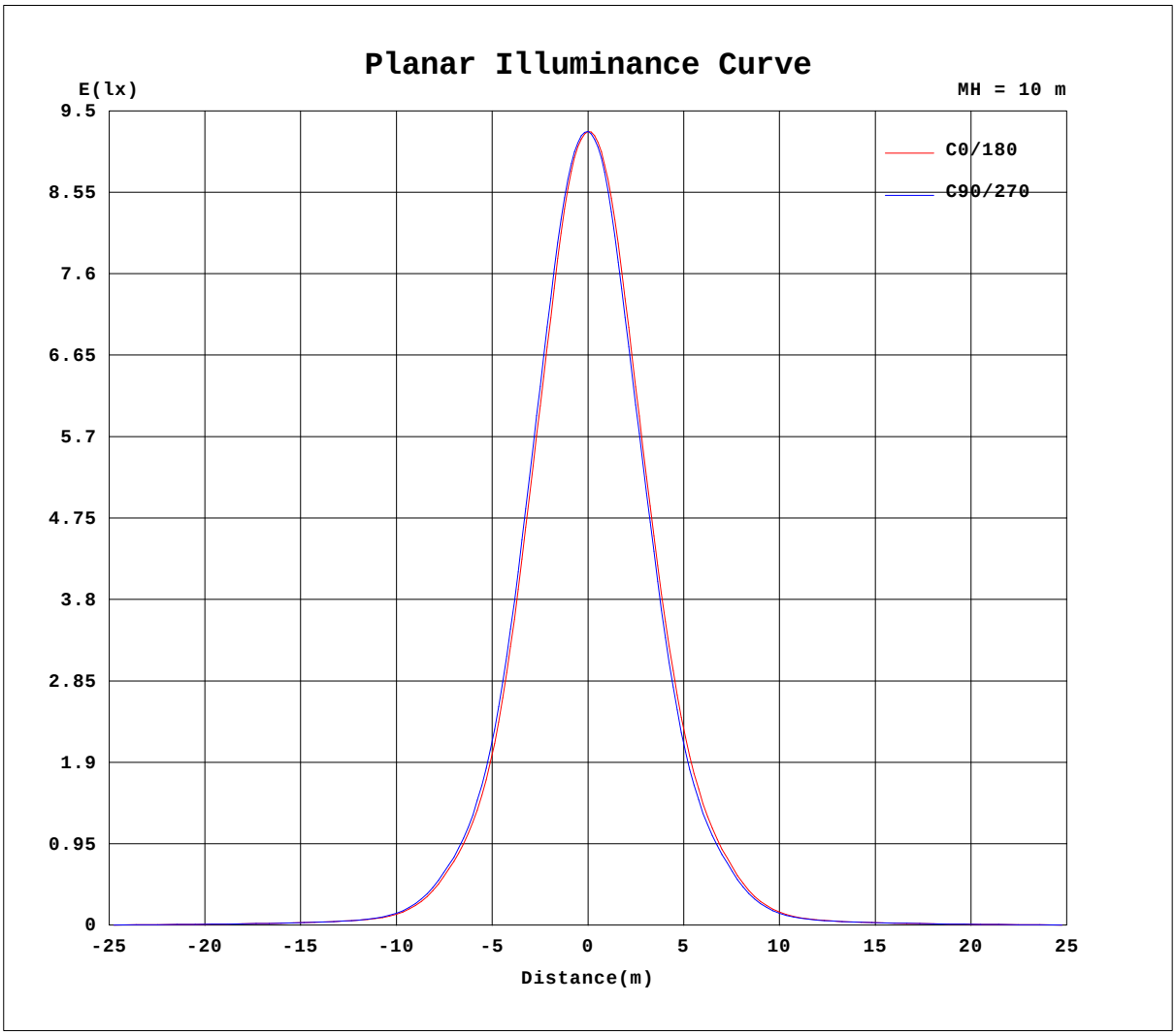
LED Avg.L Report

Test:U:230.20V I:0.0445A P:9.1461W PF:0.8929 Freq:49.99Hz Lamp Flux:592.05x1 lm		
NAME: Milan wall ceiling spot 7.5W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	9123
L_0~180(75)av	11189
L_0~180(85)av	11468
L_90~270(65)av	9205
L_90~270(75)av	11293
L_90~270(85)av	11501
L_45(65)av	9160
L_45(75)av	11223
L_45(85)av	11491

Standard: GB/T 29293-2012

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LQL
Test Date:05 March 2018

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.403
Humidity:65.0%
Test Distance:10.320m [K=1.0000]
Remarks: ZG1 BGE 30KH0 LIC9W500UNI

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.20V I:0.0445A P:9.1461W PF:0.8929 Freq:49.99Hz Lamp Flux:592.05x1 lm		
NAME: Milan wall ceiling spot 7.5W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	926	926	926	926	926	926	926	926	926	926	926	926	926	926	926	926	926	926	926
5	890	892	891	893	894	896	895	897	897	899	898	900	899	900	899	899	897	898	898
10	778	784	783	787	787	793	791	797	796	802	801	804	801	804	803	806	802	803	800
15	634	640	638	643	642	647	646	653	654	660	658	661	658	664	663	666	660	661	659
20	473	479	478	481	479	483	485	491	493	497	494	498	501	507	507	507	502	504	506
25	319	324	322	325	323	327	329	336	336	343	340	346	350	356	354	359	354	358	361
30	207	210	208	212	208	213	213	219	219	225	224	230	231	238	237	241	238	243	245
35	136	136	135	137	136	138	139	141	142	145	146	150	151	154	155	157	158	161	162
40	75.3	76.4	75.9	77.6	76.5	78.1	79.3	80.8	80.8	82.8	82.2	84.2	85.1	86.8	86.9	88.9	88.3	90.2	91.3
45	37.6	38.2	37.8	38.5	39.3	40.4	39.4	40.2	39.8	40.5	41.2	42.4	41.1	42.4	42.0	42.8	43.4	44.9	44.1
50	23.7	23.9	23.9	24.1	24.1	24.4	24.1	24.3	24.1	24.2	24.0	24.2	23.9	24.2	24.1	24.5	24.5	24.9	24.8
55	20.2	20.3	20.2	20.3	20.2	20.2	20.1	20.2	20.0	20.1	20.0	20.0	19.9	19.9	19.9	20.1	20.0	20.2	20.3
60	17.7	17.7	17.6	17.7	17.6	17.7	17.6	17.6	17.6	17.7	17.6	17.6	17.5	17.5	17.5	17.6	17.5	17.7	17.8
65	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.6	14.7	14.6	14.7	14.6	14.6	14.5	14.5	14.5	14.6	14.6
70	13.2	13.2	13.2	13.2	13.1	13.2	13.1	13.1	13.1	13.1	13.0	13.0	12.9	12.9	12.9	12.9	12.8	12.9	12.9
75	11.0	11.1	11.0	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.0	11.0	11.0	11.0	11.0	11.0	11.0
80	7.73	7.86	7.81	7.91	7.88	7.98	7.94	8.06	7.99	8.07	8.01	8.06	7.98	8.06	7.96	8.03	7.96	8.01	7.94
85	3.63	3.71	3.72	3.81	3.82	3.91	3.92	4.01	3.98	4.05	4.03	4.10	4.06	4.10	4.07	4.11	4.04	4.09	3.97
90	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.03	0.04	0.04	0.04	0.04	0.05	0.02	0.06

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LQL
Test Date:05 March 2018

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.403
Humidity:65.0%
Test Distance:10.320m [K=1.0000]
Remarks: ZG1 BGE 30KH0 LIC9W500UNI

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.20V I:0.0445A P:9.1461W PF:0.8929 Freq:49.99Hz Lamp Flux:592.05x1 lm		
NAME: Milan wall ceiling spot 7.5W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

Table--2 UNIT: cd

γ (DEG) \ C(DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	926	926	926	926	926	926	926	926	926	926	926	926	926	926	926	926	926		
5	897	897	895	895	893	892	890	890	889	890	888	888	887	888	887	889	888		
10	797	798	793	794	789	788	783	782	778	778	776	777	775	776	774	777	776		
15	655	658	653	652	647	648	643	644	637	638	633	637	633	635	630	633	631		
20	505	507	501	500	494	498	492	492	484	481	474	478	475	475	469	472	468		
25	359	361	357	356	351	354	346	344	338	334	326	329	322	324	319	320	316		
30	243	246	242	243	237	239	233	232	226	224	217	218	213	214	209	210	206		
35	161	163	162	163	161	160	156	155	150	149	145	144	140	140	137	138	135		
40	90.1	92.0	90.8	91.4	88.6	90.1	86.9	86.7	83.5	82.3	78.7	79.2	76.6	76.9	75.2	75.3	73.6		
45	43.4	44.6	43.4	44.9	44.3	43.5	42.2	42.1	40.3	41.1	39.6	38.7	37.4	37.7	37.1	38.4	37.6		
50	24.8	25.2	25.0	25.4	25.3	25.1	24.6	24.7	24.1	24.3	23.8	23.7	23.4	23.6	23.4	23.6	23.5		
55	20.3	20.5	20.6	20.7	20.7	20.7	20.6	20.5	20.4	20.5	20.3	20.2	20.1	20.1	20.1	20.1	20.1		
60	17.8	18.0	18.0	18.2	18.1	18.2	18.1	18.1	18.0	18.0	17.9	17.9	17.8	17.8	17.7	17.8	17.7		
65	14.6	14.7	14.7	14.8	14.8	14.9	14.9	14.9	14.8	14.9	14.8	14.8	14.8	14.8	14.7	14.8	14.7		
70	12.9	13.0	13.0	13.1	13.1	13.2	13.2	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2		
75	11.0	11.1	11.0	11.1	11.1	11.2	11.1	11.1	11.1	11.1	11.0	11.0	10.9	11.0	10.9	11.0	10.9		
80	7.91	7.93	7.86	7.93	7.86	7.88	7.81	7.80	7.73	7.75	7.64	7.67	7.59	7.64	7.60	7.69	7.63		
85	3.89	3.91	3.84	3.85	3.76	3.77	3.68	3.67	3.57	3.59	3.50	3.52	3.44	3.50	3.45	3.51	3.49		
90	0.06	0.05	0.04	0.02	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LQL
Test Date:05 March 2018

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.403
Humidity:65.0%
Test Distance:10.320m [K=1.0000]
Remarks: ZG1 BGE 30KH0 LIC9W500UNI