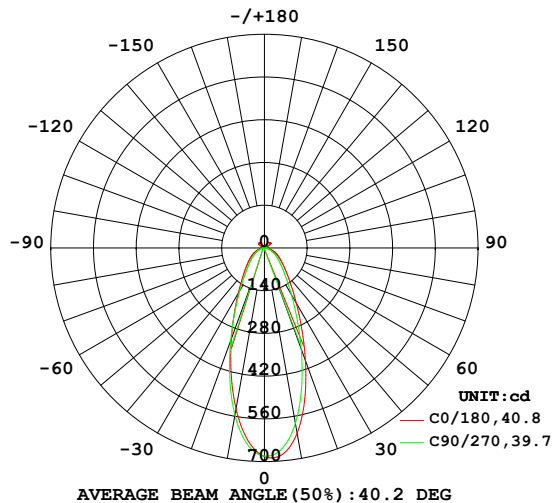


LUMINAIRE PHOTOMETRIC TEST REPORT

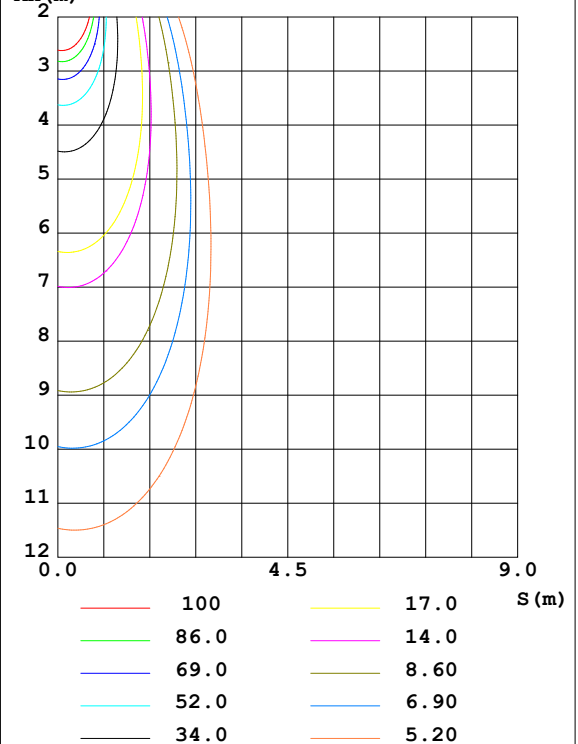
Test:U:232.38V I:0.0564A P:10.615W PF:0.8097 Freq:49.37Hz Lamp Flux:600.676x1 lm		
NAME: W1765LED-2	TYPE:	WEIGHT:
SPEC.: P-W1765LED-2-10W3040-CI30031R90-LBQ1100	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 56.59 lm/W			
MODEL	CLU701 1002	I _{max} (cd)	688.5	S/MH (C0/180)	0.60
NOMINAL POWER (W)	10W	LOR (%)	100.0	S/MH (C90/270)	0.62
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	600.68	η UP, DN (C0-180)	4.0, 48.9
NOMINAL FLUX (lm)	600.676	CIE CLASS	DIRECT	η UP, DN (C180-360)	4.1, 43.0
LAMPS INSIDE	1	η up (%)	8.1	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	220.2	η down (%)	91.9	CIBSE SHR MAX	0.70

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Xie Bi
Test Date: 2024-11-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity: 65.0%
Test Distance: 6.810m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

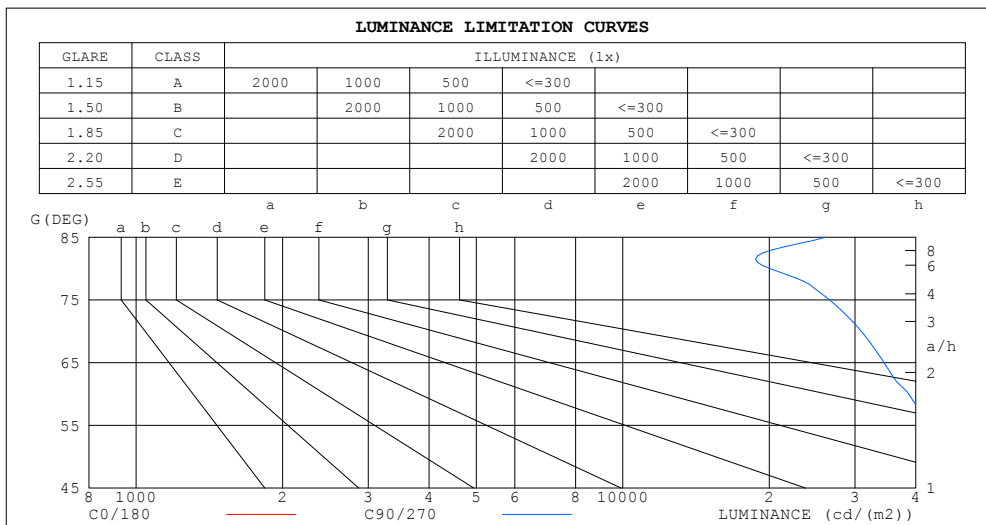
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	616.4	583.6	535.6	556.3					0- 10	59.82	59.82	9.96, 9.96
20	392.9	352.3	316.8	323.2					10- 20	127.0	186.8	31.1, 31.1
30	209.4	177.2	171.0	160.4					20- 30	115.4	302.2	50.3, 50.3
40	119.1	95.76	102.2	87.58					30- 40	83.74	385.9	64.3, 64.3
50	76.17	59.60	67.54	55.21					40- 50	62.27	448.2	74.6, 74.6
60	51.30	37.92	45.87	34.25					50- 60	47.17	495.4	82.5, 82.5
70	32.58	20.72	27.52	18.21					60- 70	32.98	528.4	88, 88
80	15.01	6.829	11.48	5.645					70- 80	17.85	546.2	90.9, 90.9
90	3.752	2.536	3.620	1.828					80- 90	5.586	551.8	91.9, 91.9
100	8.671	2.258	9.755	3.002					90-100	5.311	557.1	92.7, 92.7
110	2.112	1.384	1.923	1.909					100-110	4.910	562.0	93.6, 93.6
120	18.57	3.056	17.74	4.255					110-120	5.295	567.3	94.4, 94.4
130	24.63	4.086	23.81	5.512					120-130	12.48	579.8	96.5, 96.5
140	23.18	4.454	21.84	5.755					130-140	11.07	590.9	98.4, 98.4
150	9.822	2.131	10.22	0.5688					140-150	7.721	598.6	99.7, 99.7
160	3.123	3.689	3.406	4.525					150-160	0.7362	599.3	99.8, 99.8
170	1.369	1.242	1.118	1.079					160-170	1.232	600.6	100, 100
180	1.299	1.289	1.297	1.287					170-180	0.1160	600.7	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2024-11-30

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:232.38V I:0.0564A P:10.615W PF:0.8097 Freq:49.37Hz Lamp Flux:600.676x1 lm		
NAME: W1765LED-2	TYPE:	WEIGHT:
SPEC.:P-W1765LED-2-10W3040-CI30031R90-LBQ1100	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	45836	26120
80	44095	20064
75	46120	26594
70	48604	30915
65	50365	34411
60	52351	38693
55	55419	42569
50	60462	47304
45	68026	53872

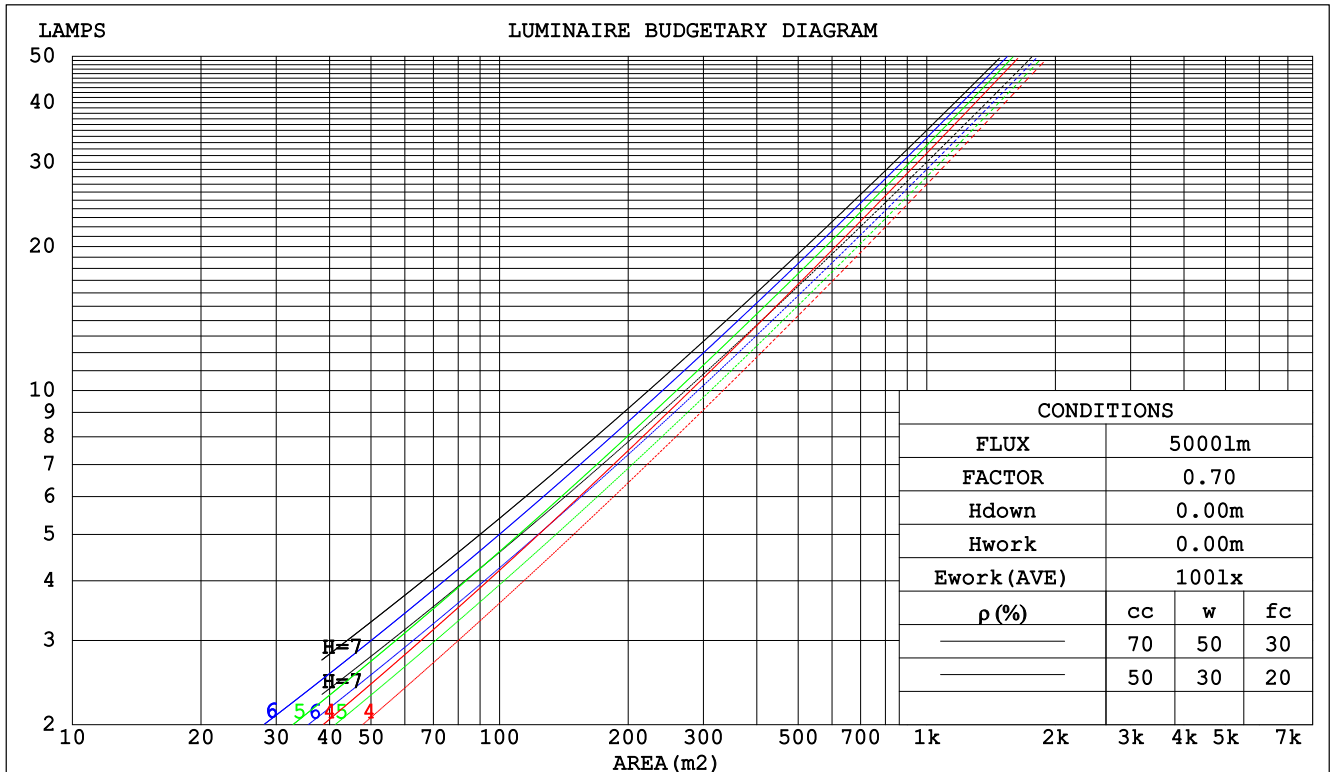
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2024-11-30

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:232.38V I:0.0564A P:10.615W PF:0.8097 Freq:49.37Hz Lamp Flux:600.676x1 lm		
NAME: W1765LED-2	TYPE:	WEIGHT:
SPEC.:P-W1765LED-2-10W3040-CI30031R90-LBQ1100	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	Coefficients of Utilization(CU)															
0.0	1.17	1.17	1.17	1.13	1.13	1.13	1.07	1.07	1.07	1.00	1.00	1.00	.95	.95	.95	.92
1.0	1.06	1.02	.00	1.03	.00	.97	.97	.95	.93	.92	.90	.88	.87	.86	.84	.82
2.0	.96	.90	.86	.93	.88	.84	.89	.85	.81	.84	.81	.78	.80	.78	.76	.73
3.0	.87	.81	.76	.85	.79	.75	.81	.76	.72	.77	.74	.70	.74	.71	.68	.66
4.0	.80	.73	.68	.78	.72	.67	.75	.69	.65	.72	.67	.64	.69	.65	.62	.60
5.0	.74	.67	.61	.72	.66	.61	.69	.64	.59	.67	.62	.58	.64	.60	.57	.55
6.0	.68	.61	.56	.67	.60	.55	.64	.59	.54	.62	.57	.53	.60	.56	.52	.51
7.0	.64	.56	.52	.62	.56	.51	.60	.54	.50	.58	.53	.49	.56	.52	.49	.47
8.0	.59	.53	.48	.58	.52	.47	.57	.51	.47	.55	.50	.46	.53	.49	.45	.44
9.0	.56	.49	.45	.55	.49	.44	.53	.48	.44	.52	.47	.43	.50	.46	.42	.41
10.0	.53	.46	.42	.52	.46	.41	.50	.45	.41	.49	.44	.40	.48	.43	.40	.38



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2024-11-30

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:232.38V I:0.0564A P:10.615W PF:0.8097 Freq:49.37Hz Lamp Flux:600.676x1 lm		
NAME: W1765LED-2	TYPE:	WEIGHT:
SPEC.:P-W1765LED-2-10W3040-CI30031R90-LBQ1100	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.236	.134	.043	.227	.129	.041	.209	.120	.038	.193	.112	.036	.179	.104	.033		
2.0	.222	.122	.037	.214	.118	.036	.199	.111	.034	.185	.104	.032	.172	.097	.031		
3.0	.208	.110	.033	.200	.107	.032	.187	.101	.031	.174	.095	.029	.163	.090	.028		
4.0	.193	.101	.030	.187	.098	.029	.175	.093	.028	.164	.088	.027	.153	.083	.025		
5.0	.181	.092	.027	.175	.090	.026	.164	.086	.025	.154	.081	.024	.145	.077	.023		
6.0	.169	.085	.024	.164	.083	.024	.154	.079	.023	.145	.076	.022	.137	.072	.021		
7.0	.159	.079	.022	.155	.077	.022	.146	.074	.021	.137	.070	.020	.130	.067	.020		
8.0	.150	.073	.021	.146	.072	.020	.138	.069	.020	.130	.066	.019	.123	.063	.018		
9.0	.142	.069	.019	.138	.067	.019	.131	.065	.018	.124	.062	.018	.117	.060	.017		
10.0	.134	.064	.018	.131	.063	.018	.124	.061	.017	.118	.058	.017	.112	.056	.016		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.252	.252	.252	.216	.216	.216	.147	.147	.147	.085	.085	.085	.027	.027	.027	
1.0	.238	.219	.203	.203	.188	.174	.139	.129	.121	.080	.075	.070	.026	.024	.023	
2.0	.226	.195	.169	.194	.168	.146	.133	.116	.102	.076	.068	.060	.025	.022	.020	
3.0	.216	.177	.146	.185	.153	.127	.127	.106	.089	.073	.062	.052	.024	.020	.017	
4.0	.207	.163	.130	.177	.141	.113	.122	.098	.080	.071	.058	.047	.023	.019	.015	
5.0	.199	.152	.118	.171	.132	.103	.117	.092	.073	.068	.054	.043	.022	.018	.014	
6.0	.191	.144	.109	.164	.124	.095	.113	.087	.067	.066	.051	.040	.021	.017	.013	
7.0	.185	.136	.103	.159	.118	.090	.110	.083	.063	.064	.049	.038	.021	.016	.012	
8.0	.178	.130	.097	.154	.113	.085	.106	.079	.060	.062	.047	.036	.020	.015	.012	
9.0	.173	.125	.093	.149	.109	.081	.103	.077	.058	.060	.045	.034	.019	.015	.011	
10.0	.168	.121	.090	.145	.105	.079	.100	.074	.056	.059	.044	.033	.019	.014	.011	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2024-11-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:232.38V I:0.0564A P:10.615W PF:0.8097 Freq:49.37Hz Lamp Flux:600.676x1 lm											
NAME: W1765LED-2						TYPE:		WEIGHT:			
SPEC.:P-W1765LED-2-10W3040-CI30031R90-LBQ1100						DIM.:		SERIAL No.:			
MFR.:						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	26.6	27.7	27.0	28.0	28.4	25.6	26.6	25.9	27.0	27.3	
	3H	28.0	29.0	28.4	29.3	29.7	26.5	27.5	26.9	27.9	28.2
	4H	28.6	29.5	29.0	29.9	30.3	26.9	27.8	27.3	28.2	28.6
	6H	29.0	29.9	29.5	30.3	30.7	27.1	28.0	27.5	28.3	28.8
	8H	29.2	30.1	29.6	30.5	30.9	27.1	28.0	27.5	28.4	28.8
	12H	29.3	30.2	29.8	30.6	31.0	27.1	28.0	27.6	28.4	28.8
4H	2H	27.0	27.9	27.4	28.3	28.7	26.1	27.0	26.5	27.4	27.8
	3H	28.5	29.3	29.0	29.7	30.2	27.3	28.1	27.7	28.5	29.0
	4H	29.2	30.0	29.7	30.4	30.9	27.7	28.5	28.2	28.9	29.4
	6H	29.8	30.5	30.3	31.0	31.5	28.0	28.7	28.5	29.2	29.7
	8H	30.0	30.7	30.6	31.2	31.7	28.1	28.7	28.6	29.2	29.8
	12H	30.2	30.8	30.8	31.3	31.9	28.2	28.8	28.7	29.3	29.8
8H	4H	29.3	29.9	29.9	30.4	31.0	28.0	28.6	28.5	29.1	29.7
	6H	30.1	30.6	30.6	31.1	31.7	28.4	28.9	29.0	29.5	30.1
	8H	30.4	30.8	31.0	31.4	32.0	28.6	29.0	29.2	29.6	30.2
	12H	30.7	31.1	31.3	31.7	32.3	28.8	29.1	29.4	29.7	30.4
12H	4H	29.3	29.9	29.9	30.4	31.0	28.0	28.6	28.6	29.1	29.7
	6H	30.1	30.5	30.6	31.1	31.7	28.5	28.9	29.1	29.5	30.1
	8H	30.4	30.8	31.0	31.4	32.0	28.7	29.1	29.3	29.7	30.3
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.4					
1.5H	+ 0.1 / - 0.2					+ 0.1 / - 0.3					
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.6					

CIE Pub.117, 600.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.8)
Area: 0.00196 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2024-11-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:232.38V I:0.0564A P:10.615W PF:0.8097 Freq:49.37Hz Lamp Flux:600.676x1 lm		
NAME: W1765LED-2	TYPE:	WEIGHT:
SPEC.:P-W1765LED-2-10W3040-CI30031R90-LBQ1100	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

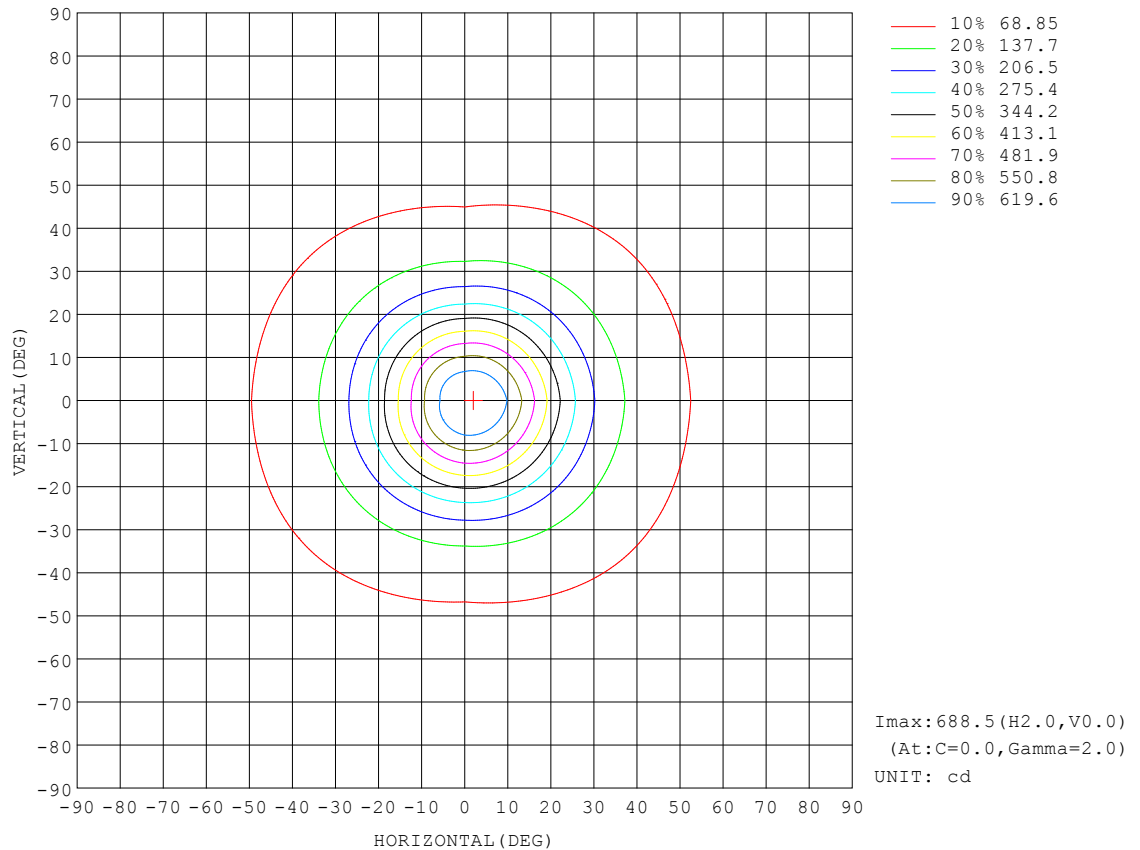
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	60	55	69	60	55	67	59	54	49
0.80	78	69	64	77	69	63	75	68	63	57
1.00	85	76	70	83	75	70	81	75	69	63
1.25	90	82	77	89	81	76	85	79	75	68
1.50	94	87	81	92	85	80	89	83	79	71
2.00	99	92	87	97	91	86	93	88	84	76
2.50	102	96	91	99	94	90	95	90	87	78
3.00	104	99	95	102	97	93	97	93	90	80
4.00	108	103	99	105	101	97	99	96	94	83
5.00	109	106	102	106	103	100	101	98	96	85
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Xie Bi
 Test Date: 2024-11-30

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.417
 Humidity: 65.0%
 Test Distance: 6.810m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:232.38V I:0.0564A P:10.615W PF:0.8097 Freq:49.37Hz Lamp Flux:600.676x1 lm		
NAME: W1765LED-2	TYPE:	WEIGHT:
SPEC.:P-W1765LED-2-10W3040-CI30031R90-LBQ1100	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

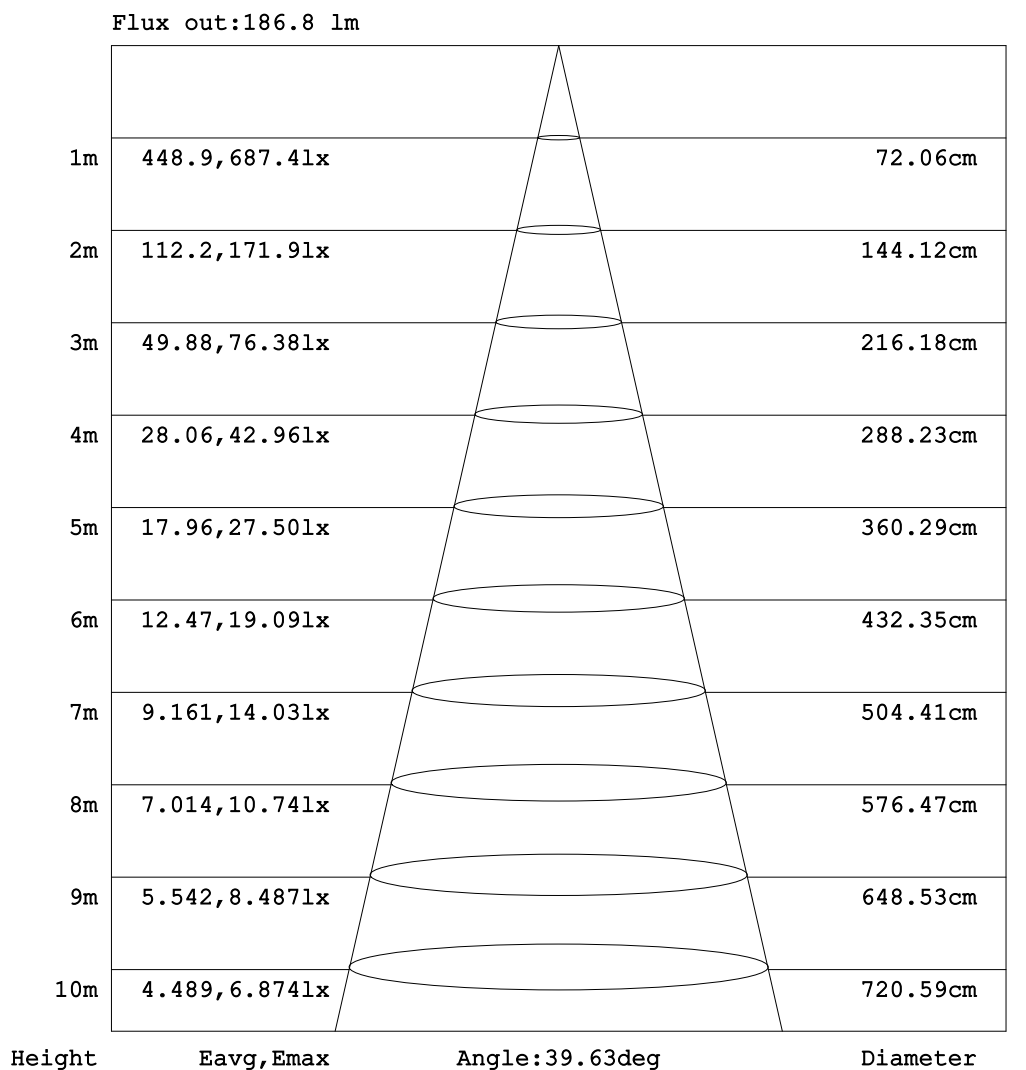


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Xie Bi
Test Date: 2024-11-30

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity: 65.0%
Test Distance: 6.810m [K=1.0000]
Remarks:

AAI Figure

Test:U:232.38V I:0.0564A P:10.615W PF:0.8097 Freq:49.37Hz Lamp Flux:600.676x1 lm		
NAME: W1765LED-2	TYPE:	WEIGHT:
SPEC.:P-W1765LED-2-10W3040-CI30031R90-LBQ1100	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



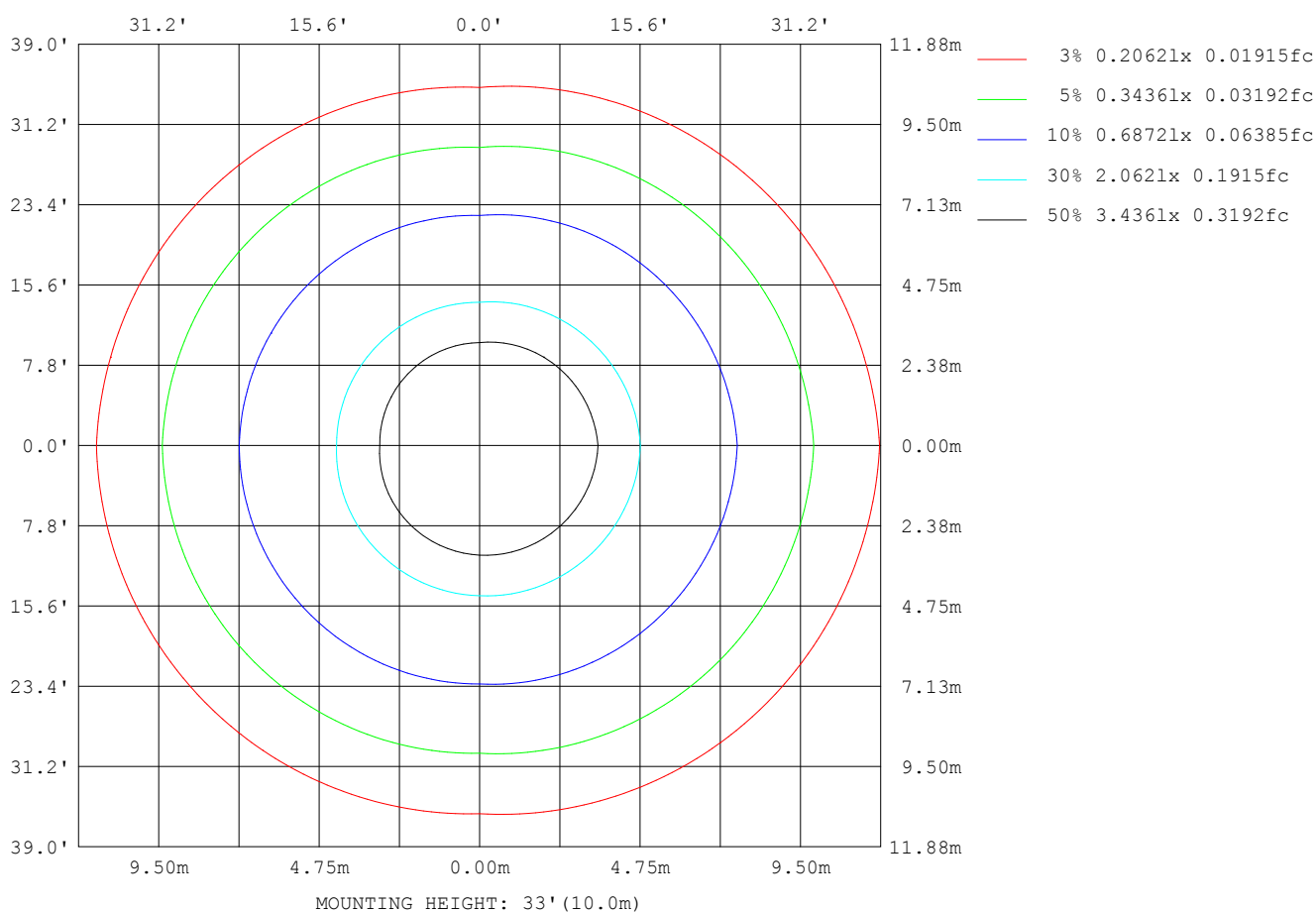
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2024-11-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:232.38V I:0.0564A P:10.615W PF:0.8097 Freq:49.37Hz Lamp Flux:600.676x1 lm		
NAME: W1765LED-2	TYPE:	WEIGHT:
SPEC.:P-W1765LED-2-10W3040-CI30031R90-LBQ1100	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2024-11-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:232.38V I:0.0564A P:10.615W PF:0.8097 Freq:49.37Hz Lamp Flux:600.676x1 lm		
NAME: W1765LED-2	TYPE:	WEIGHT:
SPEC.:P-W1765LED-2-10W3040-CI30031R90-LBQ1100	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

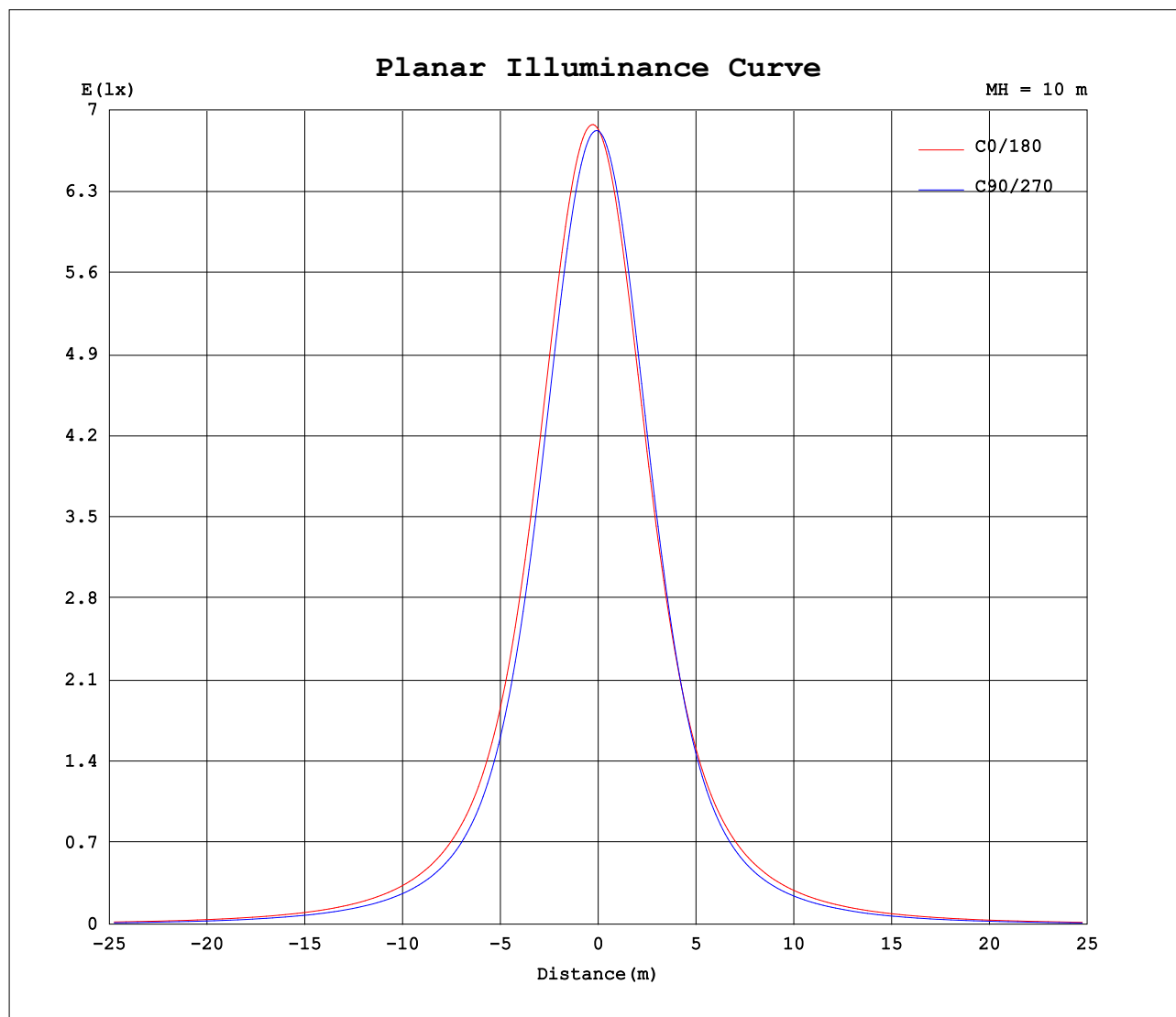
AvgL	cd/m2
L_0~180 (65) av	47451
L_0~180 (75) av	41871
L_0~180 (85) av	34719
L_90~270 (65) av	32896
L_90~270 (75) av	24130
L_90~270 (85) av	21125
L_45 (65) av	38172
L_45 (75) av	30517
L_45 (85) av	25528

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2024-11-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Xie Bi
Test Date: 2024-11-30

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity: 65.0%
Test Distance: 6.810m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:232.38V I:0.0564A P:10.615W PF:0.8097 Freq:49.37Hz Lamp Flux:600.676x1 lm		
NAME: W1765LED-2	TYPE:	WEIGHT:
SPEC.:P-W1765LED-2-10W3040-CI30031R90-LBQ1100	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	683	682	683	682															
5	679	660	632	645															
10	616	584	536	556															
15	511	471	422	439															
20	393	352	317	323															
25	288	252	232	229															
30	209	177	171	160															
35	155	128	130	116															
40	119	95.8	102	87.6															
45	94.3	74.7	82.3	68.6															
50	76.2	59.6	67.5	55.2															
55	62.3	47.9	55.8	43.7															
60	51.3	37.9	45.9	34.2															
65	41.7	28.5	36.9	26.0															
70	32.6	20.7	27.5	18.2															
75	23.4	13.5	19.1	11.0															
80	15.0	6.83	11.5	5.64															
85	7.83	4.46	4.03	2.76															
90	3.75	2.54	3.62	1.83															
95	7.29	3.36	6.60	3.63															
100	8.67	2.26	9.76	3.00															
105	8.46	0.96	9.88	2.69															
110	2.11	1.38	1.92	1.91															
115	6.76	2.71	6.65	3.68															
120	18.6	3.06	17.7	4.25															
125	24.3	3.57	23.9	5.00															
130	24.6	4.09	23.8	5.51															
135	24.2	4.39	23.1	5.74															
140	23.2	4.45	21.8	5.75															
145	21.5	4.28	20.2	5.61															
150	9.82	2.13	10.2	0.57															
155	0.89	0.85	0.76	0.66															
160	3.12	3.69	3.41	4.53															
165	6.97	3.19	4.68	3.54															
170	1.37	1.24	1.12	1.08															
175	1.28	1.27	1.21	1.18															
180	1.30	1.29	1.30	1.29															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Xie Bi
 Test Date:2024-11-30

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
 Humidity:65.0%
 Test Distance:6.810m [K=1.0000]
 Remarks: