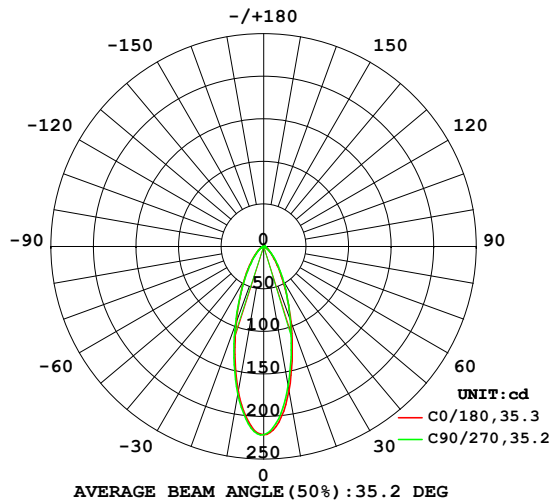


LUMINAIRE PHOTOMETRIC TEST REPORT

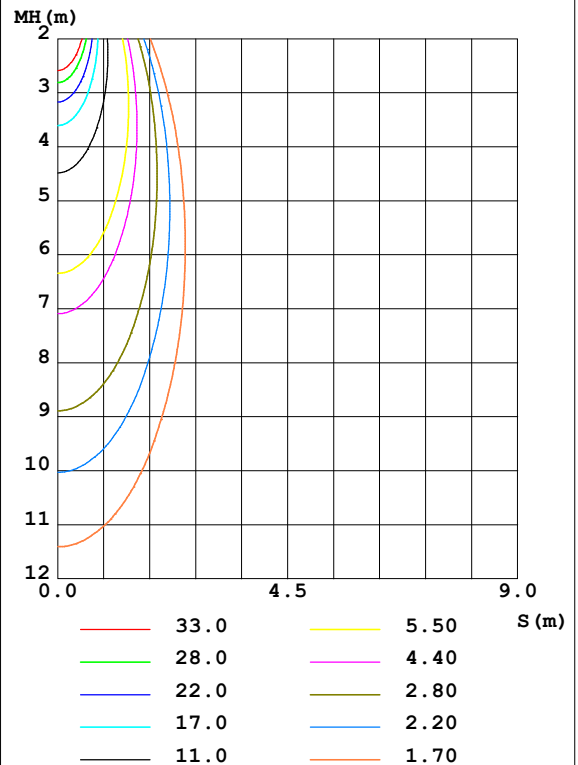
Test:U:12.03V I:0.4393A P:3.365W PF:0.6365 Freq:59.97Hz Lamp Flux:127.333x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W 2700K 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 37.84 lm/W			
MODEL:GO-3.5W-MR16-40-8-RGBTW		I _{max} (cd)	221.5	S/MH (C0/180)	0.57
NOMINAL POWER (W)	3.5	LOR (%)	100.0	S/MH (C90/270)	0.59
RATED VOLTAGE (V)	12	TOTAL FLUX (lm)	127.33	η UP, DN (C0-180)	0.5, 48.9
NOMINAL FLUX (lm)	127.333	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.3, 50.3
LAMPS INSIDE	1	η up (%)	0.8	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	12	η down (%)	99.2	CIBSE SHR MAX	0.65

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: ADMIN
Test Date: 2025-03-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.352
Humidity: 65.0%
Test Distance: 13.563m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

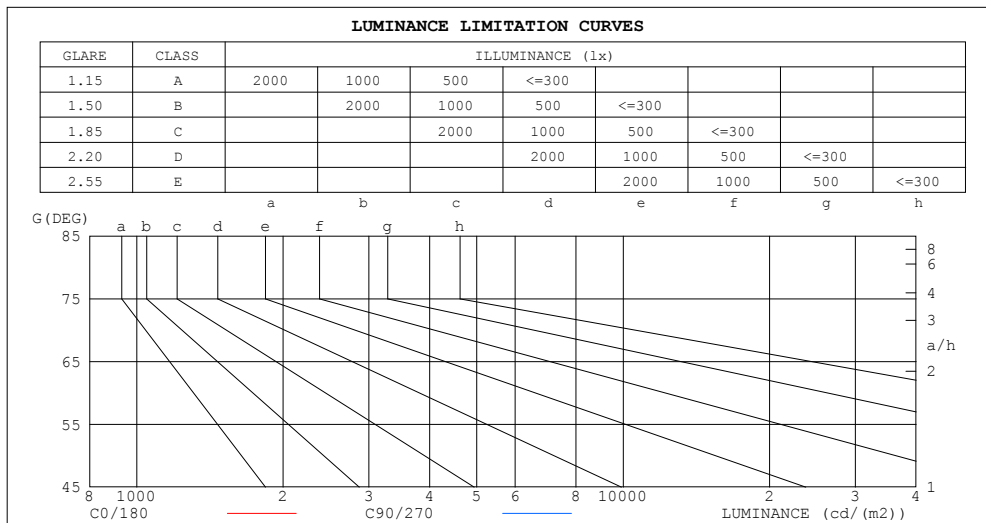
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	171.9	166.2	173.0	176.0					0- 10	18.59	18.59	14.6,14.6
20	93.73	91.63	94.51	97.67					10- 20	36.10	54.69	42.9,42.9
30	44.24	46.29	46.49	45.33					20- 30	30.53	85.21	66.9,66.9
40	19.86	21.89	22.01	19.99					30- 40	19.66	104.9	82.4,82.4
50	8.963	9.894	10.16	8.991					40- 50	11.08	116.0	91.1,91.1
60	4.192	4.404	4.609	4.239					50- 60	5.874	121.8	95.7,95.7
70	1.906	1.805	2.007	2.038					60- 70	2.968	124.8	98,98
80	0.6422	0.4582	0.6018	0.7753					70- 80	1.295	126.1	99,99
90	0	0	0	0					80- 90	0.2284	126.3	99.2,99.2
100	0	0	0	0					90-100	0	126.3	99.2,99.2
110	0	0	0	0					100-110	0	126.3	99.2,99.2
120	0	0	0	0					110-120	0	126.3	99.2,99.2
130	0	0.0383	0	0					120-130	0.0008	126.3	99.2,99.2
140	0.3060	0.3160	0.1054	0.1243					130-140	0.0652	126.4	99.3,99.3
150	0.6216	0.6985	0.4213	0.4205					140-150	0.2252	126.6	99.4,99.4
160	1.022	1.005	0.8040	0.7650					150-160	0.3322	126.9	99.7,99.7
170	1.148	1.175	1.072	1.062					160-170	0.2845	127.2	99.9,99.9
180	1.205	1.215	1.205	1.215					170-180	0.1100	127.3	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ADMIN
 Test Date:2025-03-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.352
 Humidity:65.0%
 Test Distance:13.563m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:12.03V I:0.4393A P:3.365W PF:0.6365 Freq:59.97Hz Lamp Flux:127.333x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W 2700K 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	20	0
80	37	26
75	46	40
70	56	53
65	68	68
60	84	88
55	106	115
50	139	154
45	188	208

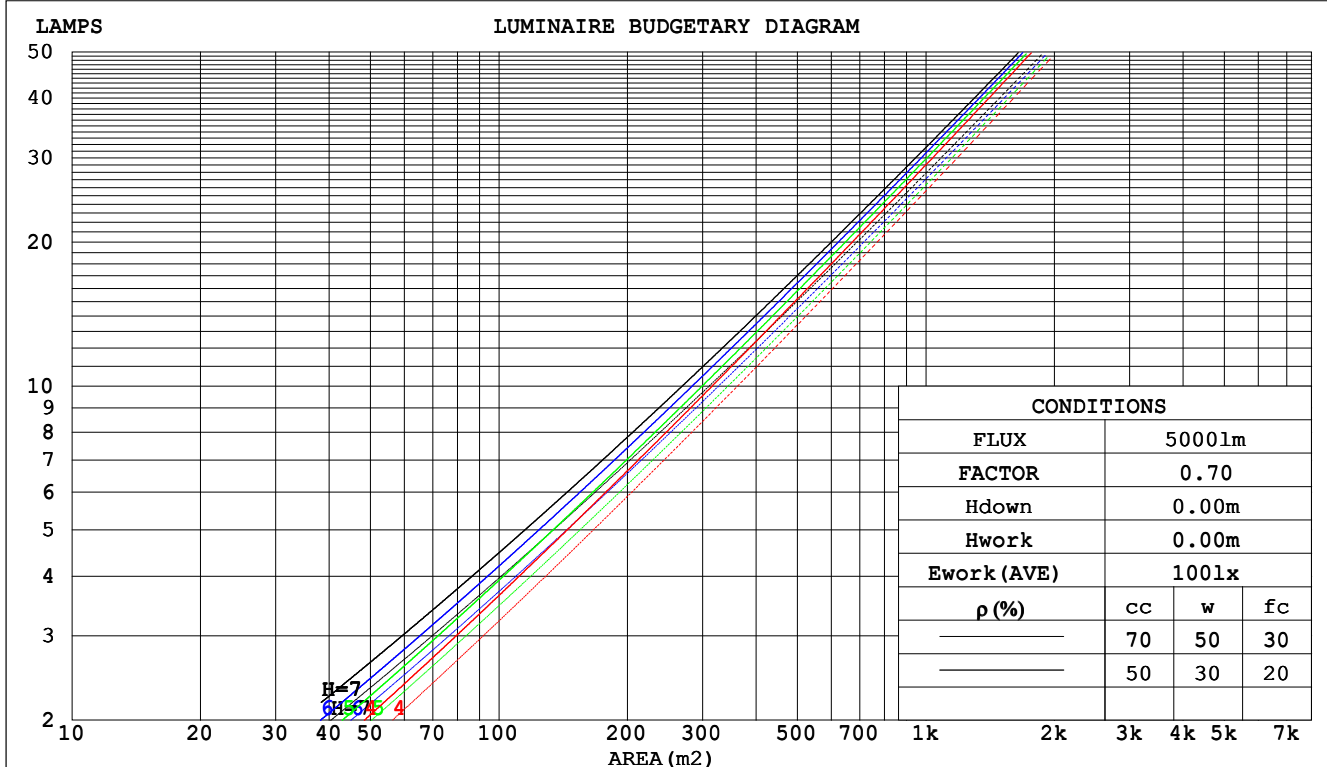
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2025-03-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.352
Humidity:65.0%
Test Distance:13.563m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:12.03V I:0.4393A P:3.365W PF:0.6365 Freq:59.97Hz Lamp Flux:127.333x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W 2700K 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	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	1.01	1.01	1.01	.99
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	.93	.96	.93	.90	.93	.91	.88	.90	.88	.86	.85
3.0	.94	.89	.85	.93	.88	.84	.90	.86	.83	.87	.84	.81	.85	.82	.80	.78
4.0	.88	.82	.78	.87	.81	.77	.84	.80	.76	.82	.78	.75	.80	.77	.74	.73
5.0	.82	.76	.72	.81	.76	.71	.79	.74	.71	.78	.73	.70	.76	.72	.69	.68
6.0	.77	.71	.67	.76	.71	.66	.75	.70	.66	.73	.69	.65	.72	.68	.65	.63
7.0	.73	.67	.62	.72	.66	.62	.71	.65	.62	.69	.65	.61	.68	.64	.61	.59
8.0	.69	.63	.58	.68	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.57	.56
9.0	.65	.59	.55	.65	.59	.55	.64	.58	.55	.63	.58	.55	.62	.57	.54	.53
10.0	.62	.56	.52	.61	.56	.52	.61	.55	.52	.60	.55	.52	.59	.55	.52	.50



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2025-03-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.352
Humidity:65.0%
Test Distance:13.563m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:12.03V I:0.4393A P:3.365W PF:0.6365 Freq:59.97Hz Lamp Flux:127.333x1 lm					
NAME: LED LANDSCAPE LIGHT			TYPE:MR16 RGBWW		WEIGHT:
SPEC.:3.5W 2700K 40°LENS			DIM.:		SERIAL No.:1
MFR.: EVERFINE			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	.192	.109	.034	.184	.105	.033	.171	.098	.031	.159	.092	.029	.148	.086	.028	
2.0	.183	.100	.031	.177	.098	.030	.166	.092	.029	.156	.087	.027	.146	.083	.026	
3.0	.173	.092	.028	.168	.090	.027	.158	.086	.026	.150	.082	.025	.141	.078	.024	
4.0	.164	.085	.025	.159	.083	.025	.151	.080	.024	.143	.077	.023	.136	.074	.022	
5.0	.155	.079	.023	.151	.077	.023	.143	.075	.022	.137	.072	.021	.130	.070	.021	
6.0	.146	.073	.021	.143	.072	.021	.137	.070	.020	.131	.068	.020	.125	.066	.020	
7.0	.139	.069	.019	.136	.068	.019	.130	.066	.019	.125	.064	.019	.120	.062	.018	
8.0	.132	.064	.018	.129	.064	.018	.124	.062	.018	.119	.060	.017	.115	.059	.017	
9.0	.126	.061	.017	.123	.060	.017	.119	.059	.017	.114	.057	.016	.110	.056	.016	
10.0	.120	.057	.016	.118	.057	.016	.114	.056	.016	.110	.054	.015	.106	.053	.015	

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	.197	.197	.197	.168	.168	.168	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.178	.163	.150	.153	.140	.129	.104	.096	.089	.060	.056	.052	.019	.018	.017	
2.0	.164	.139	.117	.140	.119	.101	.096	.083	.071	.055	.048	.041	.018	.016	.014	
3.0	.152	.120	.094	.130	.103	.082	.089	.072	.057	.052	.042	.034	.017	.014	.011	
4.0	.142	.105	.077	.122	.091	.067	.084	.063	.047	.048	.037	.028	.016	.012	.009	
5.0	.133	.094	.065	.114	.081	.056	.079	.057	.040	.046	.033	.024	.015	.011	.008	
6.0	.126	.085	.055	.108	.073	.048	.075	.051	.034	.043	.030	.020	.014	.010	.007	
7.0	.119	.077	.048	.102	.067	.042	.071	.047	.029	.041	.028	.018	.013	.009	.006	
8.0	.113	.071	.042	.097	.061	.037	.067	.043	.026	.039	.025	.015	.013	.008	.005	
9.0	.108	.066	.037	.093	.057	.032	.064	.040	.023	.037	.024	.014	.012	.008	.005	
10.0	.103	.061	.033	.089	.053	.029	.062	.037	.021	.036	.022	.012	.012	.007	.004	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ADMIN
 Test Date:2025-03-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.352
 Humidity:65.0%
 Test Distance:13.563m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:12.03V I:0.4393A P:3.365W PF:0.6365 Freq:59.97Hz Lamp Flux:127.333x1 lm										
NAME: LED LANDSCAPE LIGHT					TYPE:MR16 RGBWW			WEIGHT:		
SPEC.:3.5W 2700K 40°LENS					DIM.:			SERIAL No.:1		
MFR.: EVERFINE					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	2.4	3.3	2.6	3.5	3.7	2.6	3.6	2.9	3.8	4.0
3H	2.7	3.6	2.9	3.8	4.0	2.9	3.8	3.2	4.0	4.2
4H	2.8	3.6	3.0	3.9	4.1	3.0	3.8	3.2	4.0	4.3
6H	2.8	3.6	3.1	3.9	4.1	2.9	3.8	3.3	4.0	4.3
8H	2.8	3.6	3.1	3.8	4.1	2.9	3.7	3.2	4.0	4.2
12H	2.8	3.5	3.1	3.8	4.1	2.9	3.6	3.2	3.9	4.2
4H 2H	2.4	3.3	2.7	3.5	3.8	2.7	3.6	3.0	3.8	4.0
3H	2.8	3.6	3.2	3.9	4.2	3.0	3.8	3.4	4.1	4.4
4H	3.0	3.7	3.4	4.0	4.3	3.2	3.8	3.5	4.2	4.5
6H	3.1	3.7	3.5	4.1	4.4	3.2	3.8	3.6	4.1	4.5
8H	3.1	3.7	3.5	4.0	4.4	3.2	3.7	3.6	4.1	4.5
12H	3.1	3.6	3.5	4.0	4.4	3.1	3.6	3.6	4.0	4.4
8H 4H	3.0	3.5	3.4	3.9	4.3	3.1	3.7	3.5	4.1	4.4
6H	3.1	3.6	3.6	4.0	4.4	3.2	3.7	3.6	4.1	4.5
8H	3.2	3.6	3.6	4.0	4.4	3.2	3.6	3.7	4.0	4.5
12H	3.1	3.5	3.6	3.9	4.4	3.1	3.5	3.6	3.9	4.4
12H 4H	2.9	3.5	3.4	3.8	4.3	3.1	3.6	3.5	4.0	4.4
6H	3.1	3.5	3.6	3.9	4.4	3.2	3.6	3.6	4.0	4.5
8H	3.1	3.5	3.6	3.9	4.4	3.2	3.5	3.6	4.0	4.5
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 1.6					+ 1.1 / - 1.7				
1.5H	+ 1.5 / - 1.1					+ 1.7 / - 1.3				
2.0H	+ 2.0 / - 1.6					+ 2.4 / - 1.8				

CIE Pub.117 Corrected 127.3 lm Total Lamp Luminous Flux. (8log(F/F0) = -7.2)

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ADMIN
 Test Date:2025-03-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.352
 Humidity:65.0%
 Test Distance:13.563m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:12.03V I:0.4393A P:3.365W PF:0.6365 Freq:59.97Hz Lamp Flux:127.333x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W 2700K 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

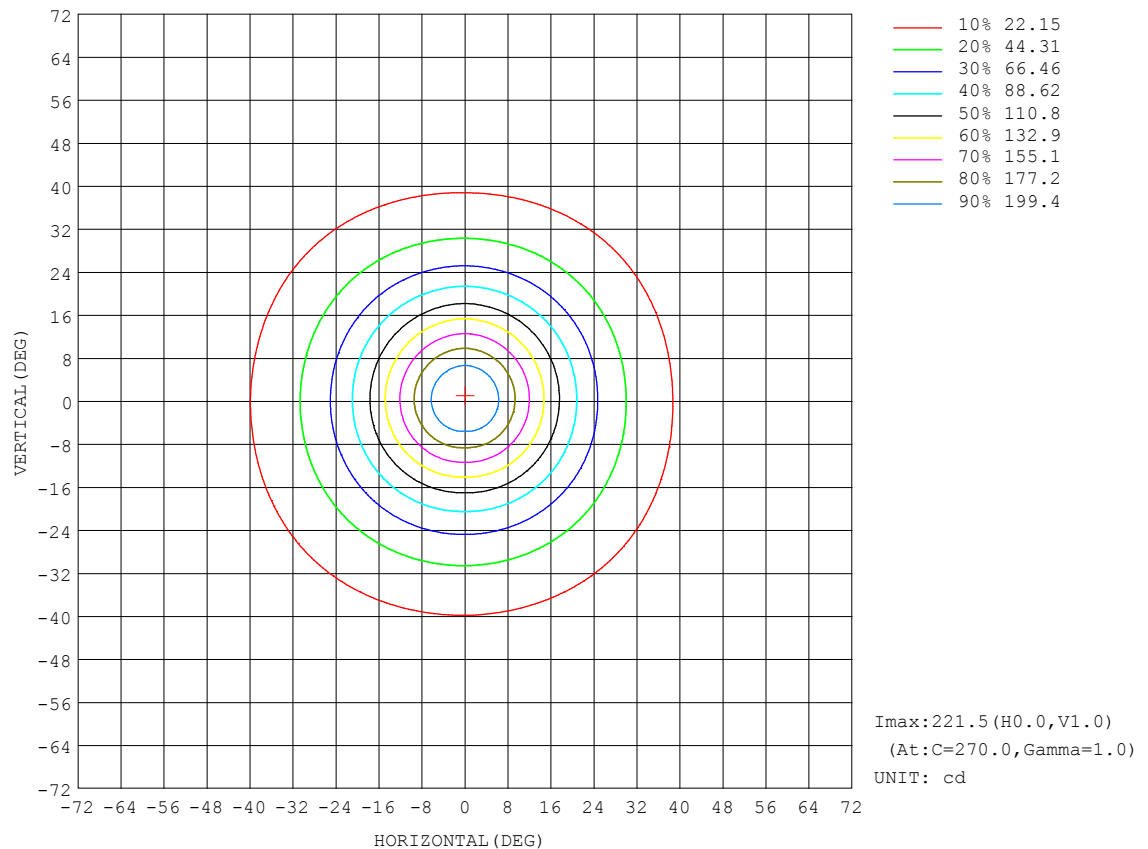
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	80	73	68	80	73	68	79	72	68	64
0.80	89	82	77	88	81	77	87	81	77	72
1.00	94	88	83	93	87	83	91	87	82	78
1.25	99	93	89	98	92	88	96	91	87	82
1.50	102	96	92	101	96	92	98	94	91	86
2.00	106	101	97	104	100	96	101	98	95	89
2.50	108	103	100	106	102	99	103	100	97	90
3.00	110	106	103	108	104	101	104	101	99	92
4.00	112	109	106	110	107	105	106	104	102	94
5.00	114	111	109	111	109	107	107	105	104	96
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:ADMIN
Test Date:2025-03-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.352
Humidity:65.0%
Test Distance:13.563m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:12.03V I:0.4393A P:3.365W PF:0.6365 Freq:59.97Hz Lamp Flux:127.333x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W 2700K 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

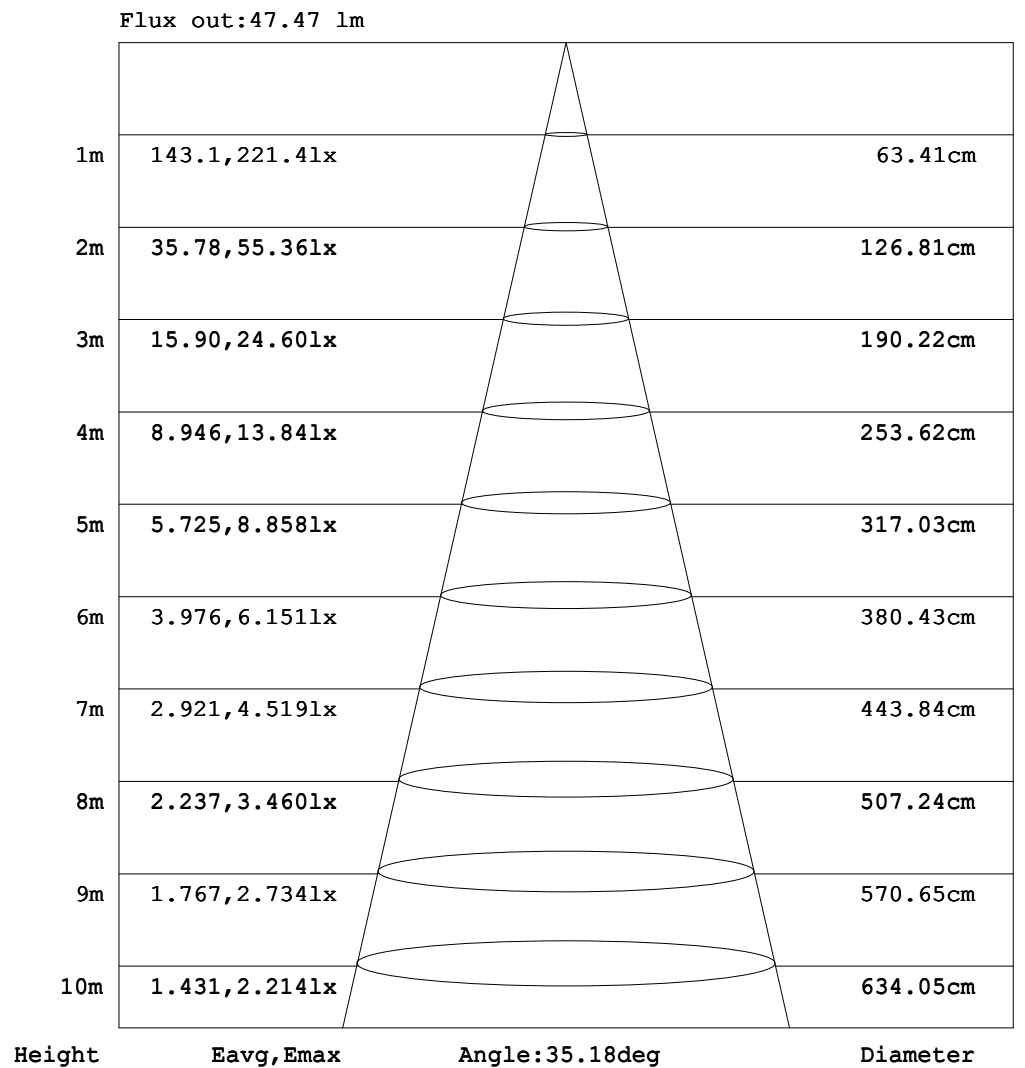


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2025-03-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.352
Humidity:65.0%
Test Distance:13.563m [K=1.0000]
Remarks:

AAI Figure

Test:U:12.03V I:0.4393A P:3.365W PF:0.6365 Freq:59.97Hz Lamp Flux:127.333x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W 2700K 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



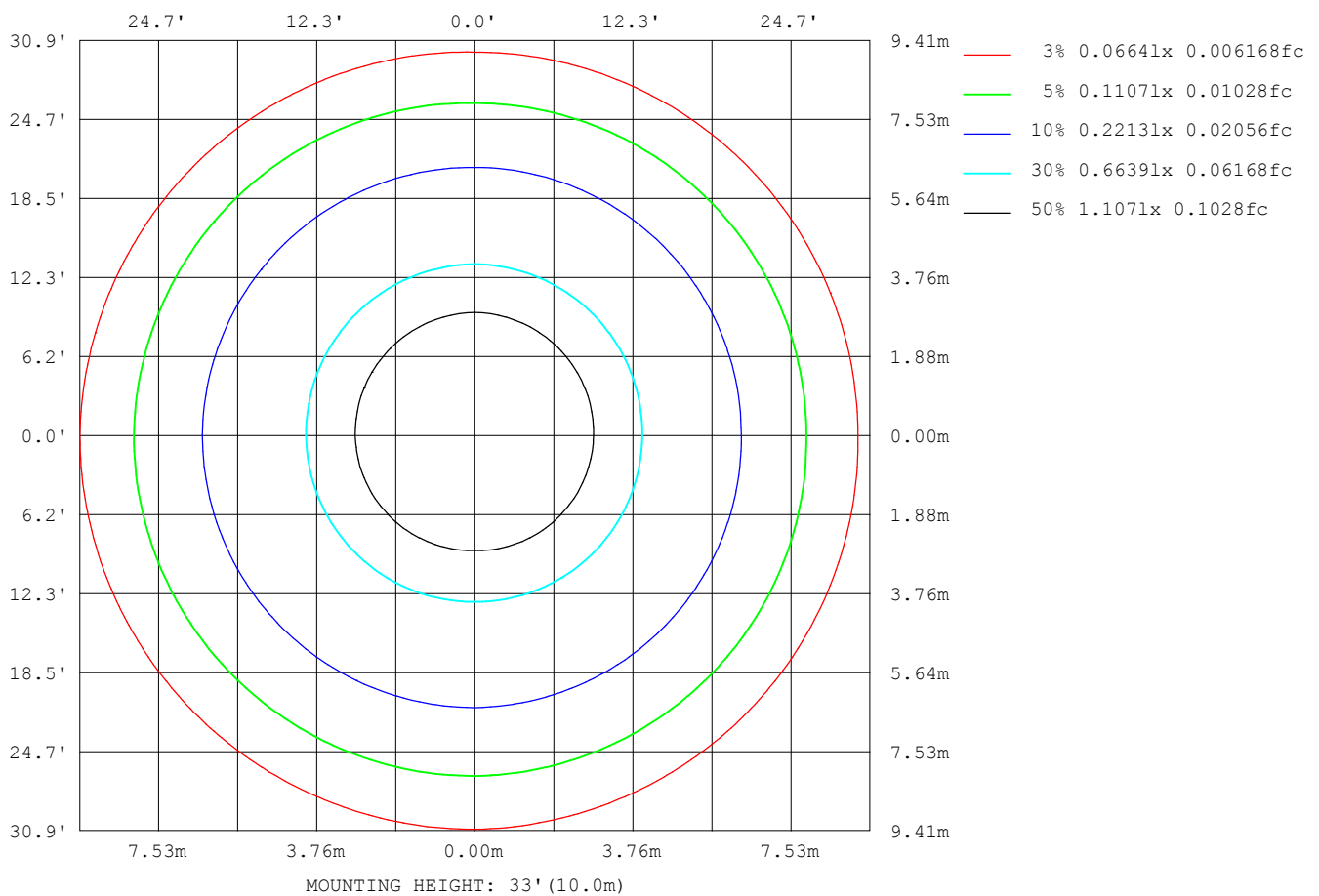
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ADMIN
 Test Date:2025-03-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.352
 Humidity:65.0%
 Test Distance:13.563m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:12.03V I:0.4393A P:3.365W PF:0.6365 Freq:59.97Hz Lamp Flux:127.333x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W 2700K 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2025-03-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.352
Humidity:65.0%
Test Distance:13.563m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:12.03V I:0.4393A P:3.365W PF:0.6365 Freq:59.97Hz Lamp Flux:127.333x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W 2700K 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

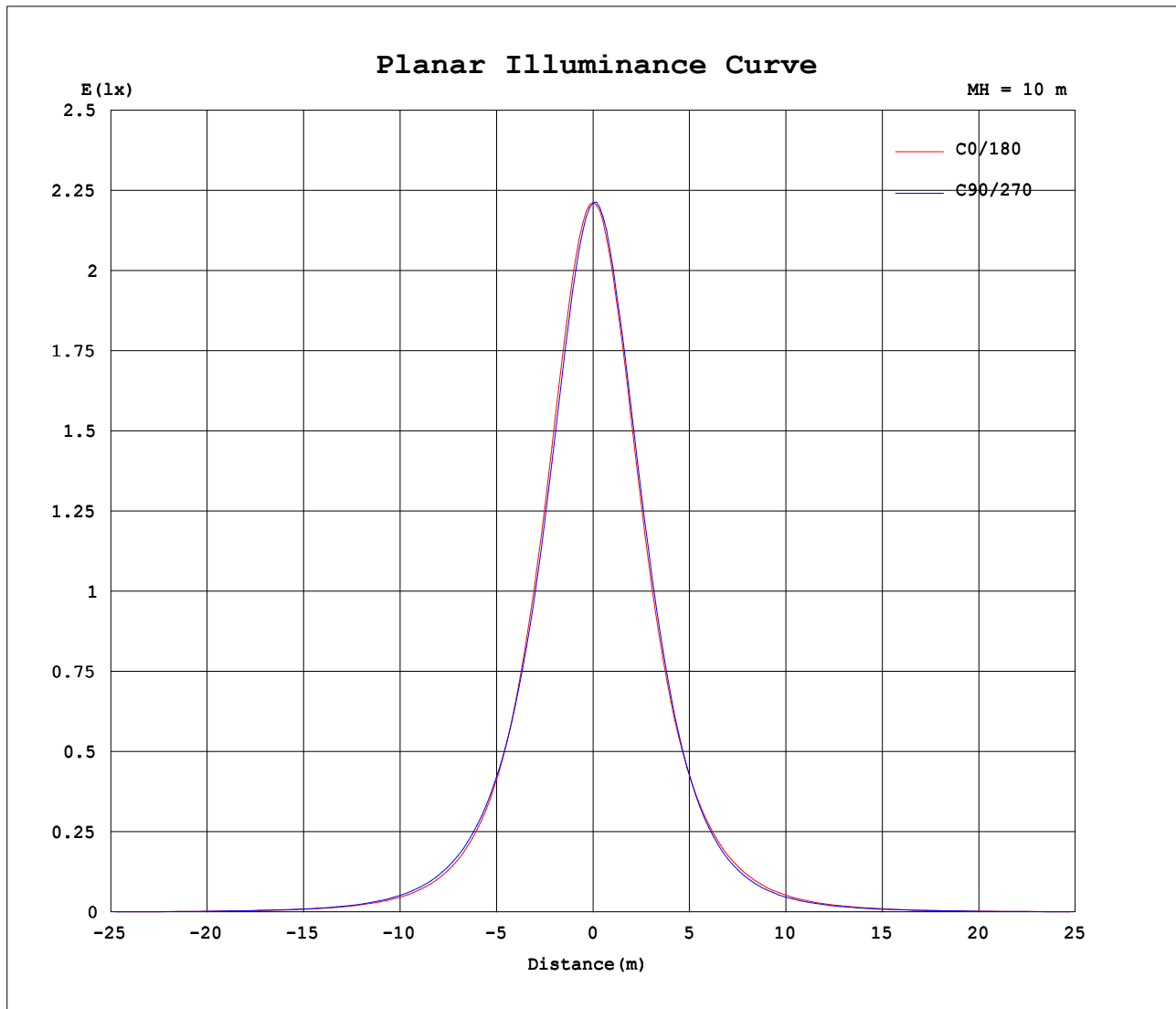
AvgL	cd/m2
L_0~180 (65) av	70
L_0~180 (75) av	47
L_0~180 (85) av	18
L_90~270 (65) av	69
L_90~270 (75) av	46
L_90~270 (85) av	18
L_45 (65) av	70
L_45 (75) av	46
L_45 (85) av	18

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2025-03-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.352
Humidity:65.0%
Test Distance:13.563m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ADMIN
Test Date: 2025-03-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.352
Humidity: 65.0%
Test Distance: 13.563m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:12.03V I:0.4393A P:3.365W PF:0.6365 Freq:59.97Hz Lamp Flux:127.333x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W 2700K 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	221	221	221	221															
5	207	203	207	209															
10	172	166	173	176															
15	130	126	132	136															
20	93.7	91.6	94.5	97.7															
25	65.0	65.5	66.7	67.4															
30	44.2	46.3	46.5	45.3															
35	29.8	32.1	32.1	30.2															
40	19.9	21.9	22.0	20.0															
45	13.3	14.7	15.0	13.4															
50	8.96	9.89	10.2	8.99															
55	6.10	6.58	6.86	6.14															
60	4.19	4.40	4.61	4.24															
65	2.85	2.88	3.08	2.96															
70	1.91	1.81	2.01	2.04															
75	1.20	1.04	1.21	1.33															
80	0.64	0.46	0.60	0.78															
85	0.17	0.00	0.14	0.31															
90	0.00	0.00	0.00	0.00															
95	0.00	0.00	0.00	0.00															
100	0.00	0.00	0.00	0.00															
105	0.00	0.00	0.00	0.00															
110	0.00	0.00	0.00	0.00															
115	0.00	0.00	0.00	0.00															
120	0.00	0.00	0.00	0.00															
125	0.00	0.00	0.00	0.00															
130	0.00	0.04	0.00	0.00															
135	0.13	0.16	0.00	0.00															
140	0.31	0.32	0.11	0.12															
145	0.45	0.51	0.25	0.26															
150	0.62	0.70	0.42	0.42															
155	0.87	0.88	0.62	0.58															
160	1.02	1.00	0.80	0.77															
165	1.07	1.12	0.96	0.90															
170	1.15	1.18	1.07	1.06															
175	1.21	1.21	1.16	1.12															
180	1.21	1.21	1.21	1.21															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ADMIN
 Test Date:2025-03-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.352
 Humidity:65.0%
 Test Distance:13.563m [K=1.0000]
 Remarks: