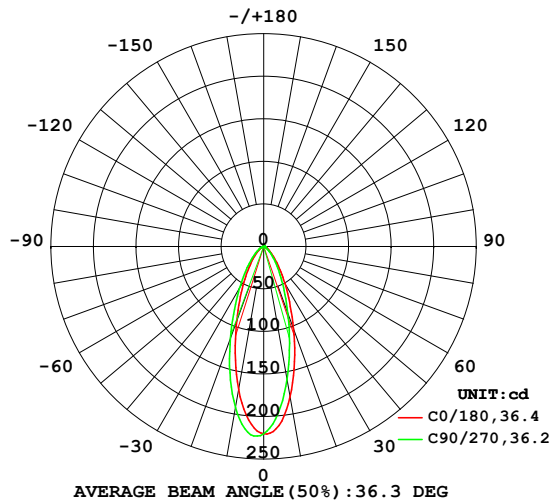


LUMINAIRE PHOTOMETRIC TEST REPORT

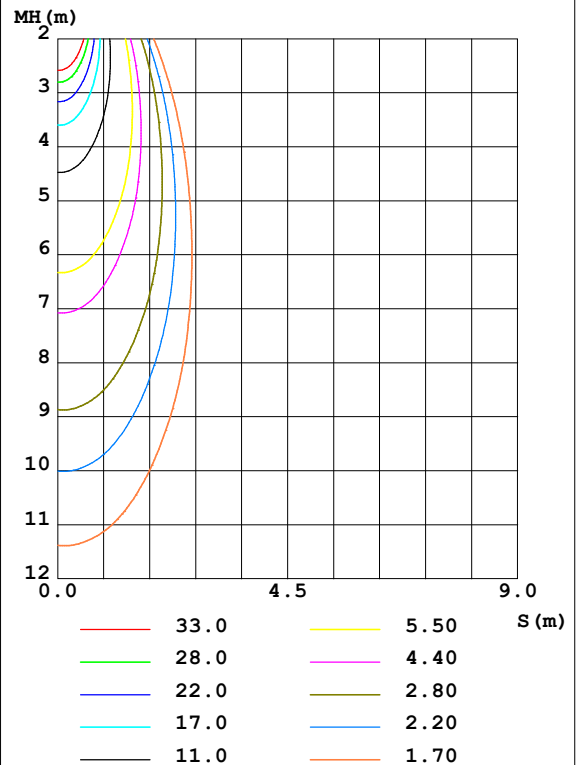
Test:U:12.08V I:0.4396A P:3.383W PF:0.6370 Freq:59.99Hz Lamp Flux:132.828x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W 4110K 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 39.27 lm/W			
MODEL:GO-3.5W-MR16-40-8-RGBTW		Imax(cd)	223.0	S/MH(C0/180)	0.57
NOMINAL POWER(W)	3.5	LOR(%)	100.0	S/MH(C90/270)	0.66
RATED VOLTAGE(V)	12	TOTAL FLUX(lm)	132.83	η UP,DN(C0-180)	0.5,46.6
NOMINAL FLUX(lm)	132.828	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.3,52.5
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:2025-05-16

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:

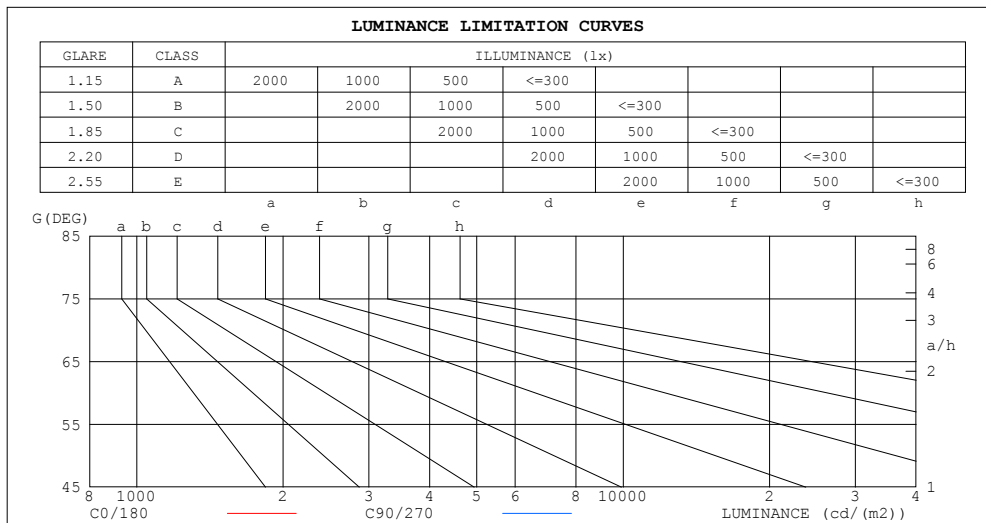
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	179.6	158.3	170.8	192.3					0- 10	18.78	18.78	14.1,14.1
20	102.7	83.35	92.95	114.6					10- 20	37.34	56.12	42.3,42.3
30	49.65	39.07	44.75	57.26					20- 30	31.88	88.01	66.3,66.3
40	22.70	17.91	20.57	27.46					30- 40	20.64	108.6	81.8,81.8
50	10.31	8.230	9.440	12.84					40- 50	11.80	120.4	90.7,90.7
60	4.787	3.796	4.419	6.002					50- 60	6.337	126.8	95.5,95.5
70	2.153	1.721	1.978	2.681					60- 70	3.243	130.0	97.9,97.9
80	0.7180	0.5354	0.6301	0.9775					70- 80	1.439	131.5	99,99
90	0	0	0	0					80- 90	0.2695	131.7	99.2,99.2
100	0	0	0	0					90-100	0	131.7	99.2,99.2
110	0	0	0	0					100-110	0	131.7	99.2,99.2
120	0	0	0	0					110-120	0	131.7	99.2,99.2
130	0	0.1150	0	0					120-130	0.0068	131.7	99.2,99.2
140	0.2869	0.4305	0.1533	0.0190					130-140	0.0850	131.8	99.2,99.2
150	0.6308	0.8133	0.4974	0.3155					140-150	0.2435	132.1	99.4,99.4
160	1.033	1.129	0.8522	0.7557					150-160	0.3468	132.4	99.7,99.7
170	1.196	1.213	1.120	1.062					160-170	0.2953	132.7	99.9,99.9
180	1.224	1.224	1.215	1.224					170-180	0.1125	132.8	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:2025-05-16

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:12.08V I:0.4396A P:3.383W PF:0.6370 Freq:59.99Hz Lamp Flux:132.828x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W 4110K 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	23	0
80	41	31
75	51	41
70	63	50
65	76	61
60	96	76
55	121	98
50	160	128
45	216	172

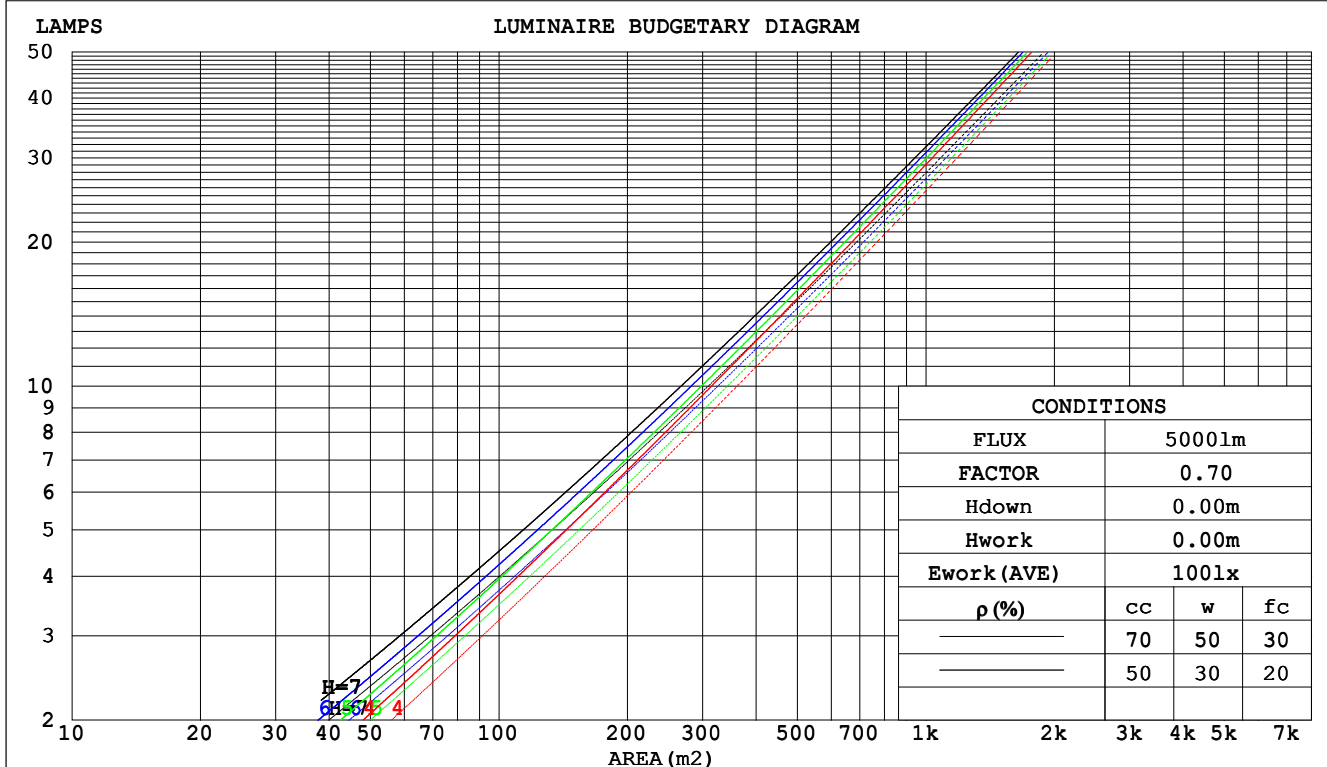
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2025-05-16

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:12.08V I:0.4396A P:3.383W PF:0.6370 Freq:59.99Hz Lamp Flux:132.828x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W 4110K 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	1.07	1.05	1.03	1.03	1.01	.00	.99	.98	.96	.96	.95	.94	.92
2.0	1.01	.97	.93	.00	.96	.92	.96	.93	.90	.93	.90	.88	.90	.88	.86	.84
3.0	.94	.89	.84	.93	.88	.84	.90	.86	.82	.87	.84	.81	.85	.82	.80	.78
4.0	.88	.82	.77	.86	.81	.77	.84	.79	.76	.82	.78	.75	.80	.77	.74	.72
5.0	.82	.76	.71	.81	.75	.71	.79	.74	.70	.77	.73	.69	.75	.72	.69	.67
6.0	.77	.71	.66	.76	.70	.66	.74	.69	.65	.73	.68	.65	.71	.67	.64	.63
7.0	.72	.66	.62	.72	.66	.62	.70	.65	.61	.69	.64	.61	.68	.64	.60	.59
8.0	.68	.62	.58	.68	.62	.58	.66	.61	.57	.65	.61	.57	.64	.60	.57	.55
9.0	.65	.59	.55	.64	.58	.54	.63	.58	.54	.62	.57	.54	.61	.57	.54	.52
10.0	.61	.56	.52	.61	.55	.52	.60	.55	.51	.59	.54	.51	.58	.54	.51	.50



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2025-05-16

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:12.08V I:0.4396A P:3.383W PF:0.6370 Freq:59.99Hz Lamp Flux:132.828x1 lm					
NAME: LED LANDSCAPE LIGHT			TYPE:MR16 RGBWW		WEIGHT:
SPEC.:3.5W 4110K 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	.193	.110	.035	.186	.106	.034	.173	.099	.032	.161	.093	.030	.150	.087	.028	
2.0	.185	.101	.031	.179	.098	.030	.168	.093	.029	.157	.088	.028	.148	.084	.026	
3.0	.175	.093	.028	.170	.091	.027	.160	.087	.026	.151	.083	.025	.143	.079	.024	
4.0	.165	.086	.025	.161	.084	.025	.152	.081	.024	.144	.078	.023	.137	.075	.023	
5.0	.156	.079	.023	.152	.078	.023	.145	.075	.022	.138	.073	.022	.132	.070	.021	
6.0	.148	.074	.021	.144	.073	.021	.138	.071	.021	.132	.068	.020	.126	.066	.020	
7.0	.140	.069	.020	.137	.068	.019	.131	.066	.019	.126	.065	.019	.121	.063	.018	
8.0	.133	.065	.018	.130	.064	.018	.125	.063	.018	.120	.061	.018	.116	.059	.017	
9.0	.127	.061	.017	.124	.061	.017	.120	.059	.017	.115	.058	.017	.111	.056	.016	
10.0	.121	.058	.016	.119	.057	.016	.114	.056	.016	.111	.055	.016	.107	.054	.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	.179	.163	.150	.153	.140	.129	.104	.097	.089	.060	.056	.052	.019	.018	.017	
2.0	.164	.139	.117	.141	.119	.101	.096	.083	.071	.056	.048	.041	.018	.016	.014	
3.0	.153	.120	.094	.131	.104	.082	.090	.072	.057	.052	.042	.034	.017	.014	.011	
4.0	.143	.106	.077	.122	.091	.067	.084	.064	.047	.049	.037	.028	.016	.012	.009	
5.0	.134	.094	.065	.115	.081	.056	.079	.057	.040	.046	.033	.024	.015	.011	.008	
6.0	.126	.085	.055	.109	.073	.048	.075	.051	.034	.043	.030	.020	.014	.010	.007	
7.0	.120	.077	.048	.103	.067	.042	.071	.047	.029	.041	.028	.018	.013	.009	.006	
8.0	.114	.071	.042	.098	.062	.037	.068	.043	.026	.039	.026	.015	.013	.008	.005	
9.0	.108	.066	.037	.093	.057	.033	.065	.040	.023	.038	.024	.014	.012	.008	.005	
10.0	.103	.062	.034	.089	.053	.029	.062	.038	.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:2025-05-16

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:12.08V I:0.4396A P:3.383W PF:0.6370 Freq:59.99Hz Lamp Flux:132.828x1 lm										
NAME: LED LANDSCAPE LIGHT					TYPE:MR16 RGBWW			WEIGHT:		
SPEC.:3.5W 4110K 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	2.7	3.7	2.9	3.8	4.0	1.8	2.8	2.0	3.0	3.1
3H	3.0	3.9	3.3	4.1	4.4	2.1	3.0	2.3	3.2	3.4
4H	3.1	4.0	3.4	4.2	4.5	2.2	3.0	2.5	3.3	3.5
6H	3.2	4.0	3.5	4.2	4.5	2.2	3.0	2.5	3.3	3.5
8H	3.2	3.9	3.5	4.2	4.5	2.2	3.0	2.5	3.2	3.5
12H	3.1	3.9	3.5	4.2	4.5	2.1	2.9	2.5	3.2	3.5
4H 2H	2.7	3.6	3.0	3.8	4.1	1.9	2.8	2.2	3.0	3.3
3H	3.2	3.9	3.5	4.2	4.5	2.3	3.1	2.7	3.4	3.7
4H	3.3	4.0	3.7	4.3	4.7	2.5	3.2	2.9	3.5	3.8
6H	3.4	4.0	3.8	4.4	4.8	2.6	3.2	3.0	3.5	3.9
8H	3.5	4.0	3.9	4.4	4.8	2.6	3.1	3.0	3.5	3.9
12H	3.4	4.0	3.9	4.3	4.8	2.5	3.0	2.9	3.4	3.8
8H 4H	3.3	3.9	3.7	4.2	4.6	2.5	3.1	2.9	3.4	3.8
6H	3.5	3.9	3.9	4.3	4.8	2.6	3.1	3.1	3.5	3.9
8H	3.5	3.9	4.0	4.4	4.8	2.6	3.1	3.1	3.5	3.9
12H	3.5	3.9	4.0	4.3	4.8	2.6	3.0	3.1	3.4	3.9
12H 4H	3.3	3.8	3.7	4.2	4.6	2.5	3.0	2.9	3.4	3.8
6H	3.4	3.8	3.9	4.3	4.7	2.6	3.0	3.1	3.5	3.9
8H	3.5	3.8	4.0	4.3	4.8	2.6	3.0	3.1	3.4	3.9
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 1.4					+ 1.1 / - 1.5				
1.5H	+ 1.8 / - 1.2					+ 1.3 / - 1.1				
2.0H	+ 2.3 / - 1.6					+ 2.0 / - 1.5				

CIE Pub.117 Corrected 132.8 lm Total Lamp Luminous Flux. (8log(F/F0) = -7.0)

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ADMIN
 Test Date:2025-05-16

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:12.08V I:0.4396A P:3.383W PF:0.6370 Freq:59.99Hz Lamp Flux:132.828x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W 4110K 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

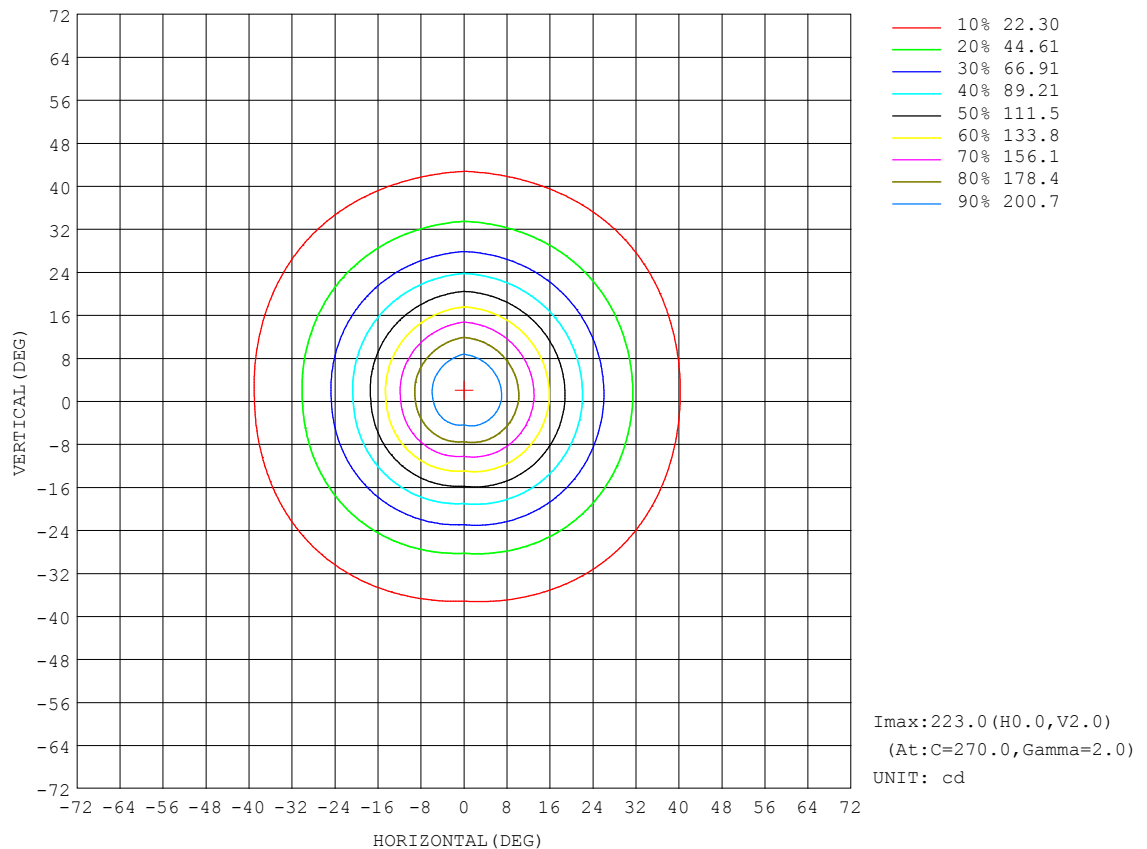
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	80	73	68	80	72	68	79	72	68	63
0.80	88	81	77	88	81	77	86	80	76	72
1.00	94	87	83	93	87	82	91	87	82	77
1.25	99	92	88	98	92	88	95	91	87	82
1.50	102	96	92	101	95	92	98	94	90	85
2.00	106	101	97	104	100	96	101	97	94	88
2.50	108	103	100	106	102	99	103	99	97	90
3.00	110	106	102	108	104	101	104	101	99	92
4.00	112	109	106	110	107	105	106	104	102	94
5.00	114	111	108	111	109	107	107	105	104	95
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:2025-05-16

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:12.08V I:0.4396A P:3.383W PF:0.6370 Freq:59.99Hz Lamp Flux:132.828x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W 4110K 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

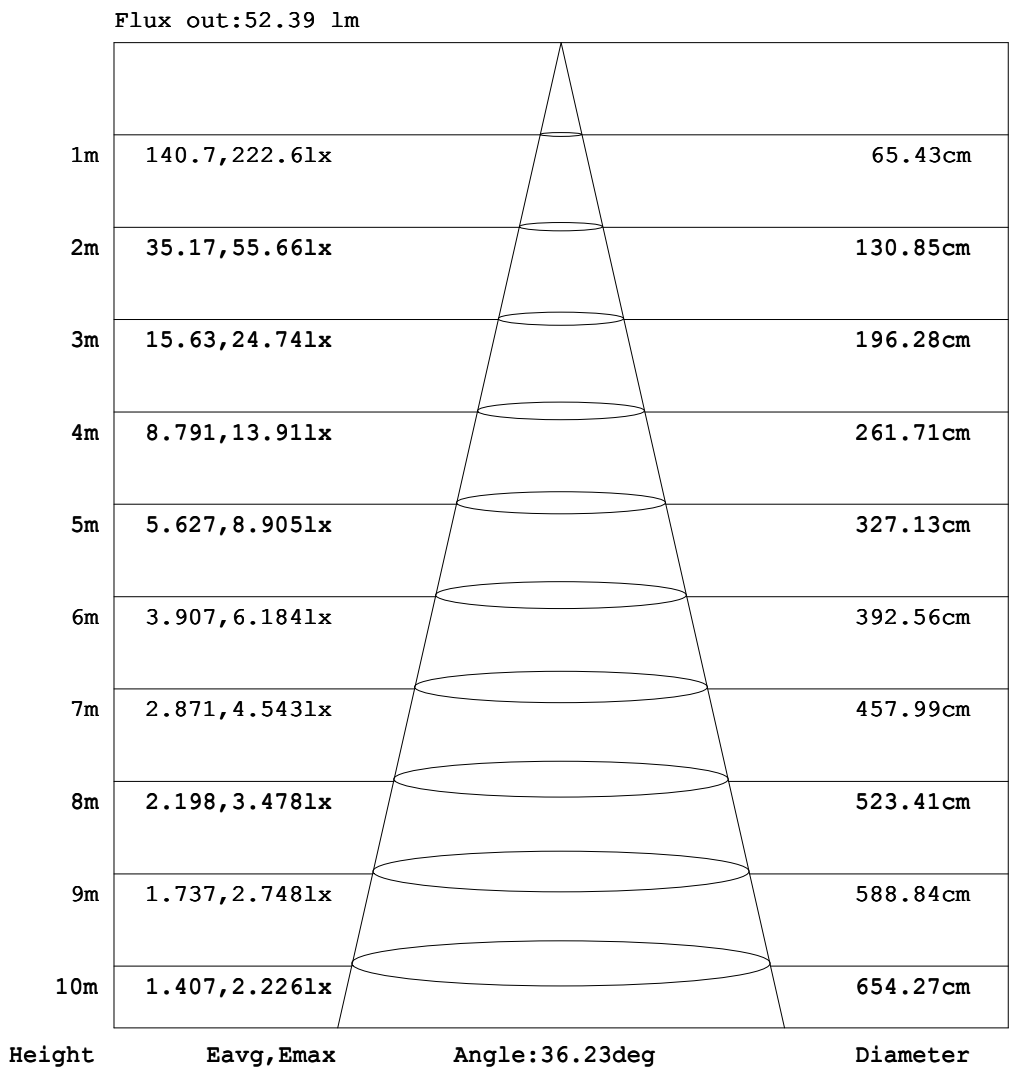


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2025-05-16

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:12.08V I:0.4396A P:3.383W PF:0.6370 Freq:59.99Hz Lamp Flux:132.828x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W 4110K 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



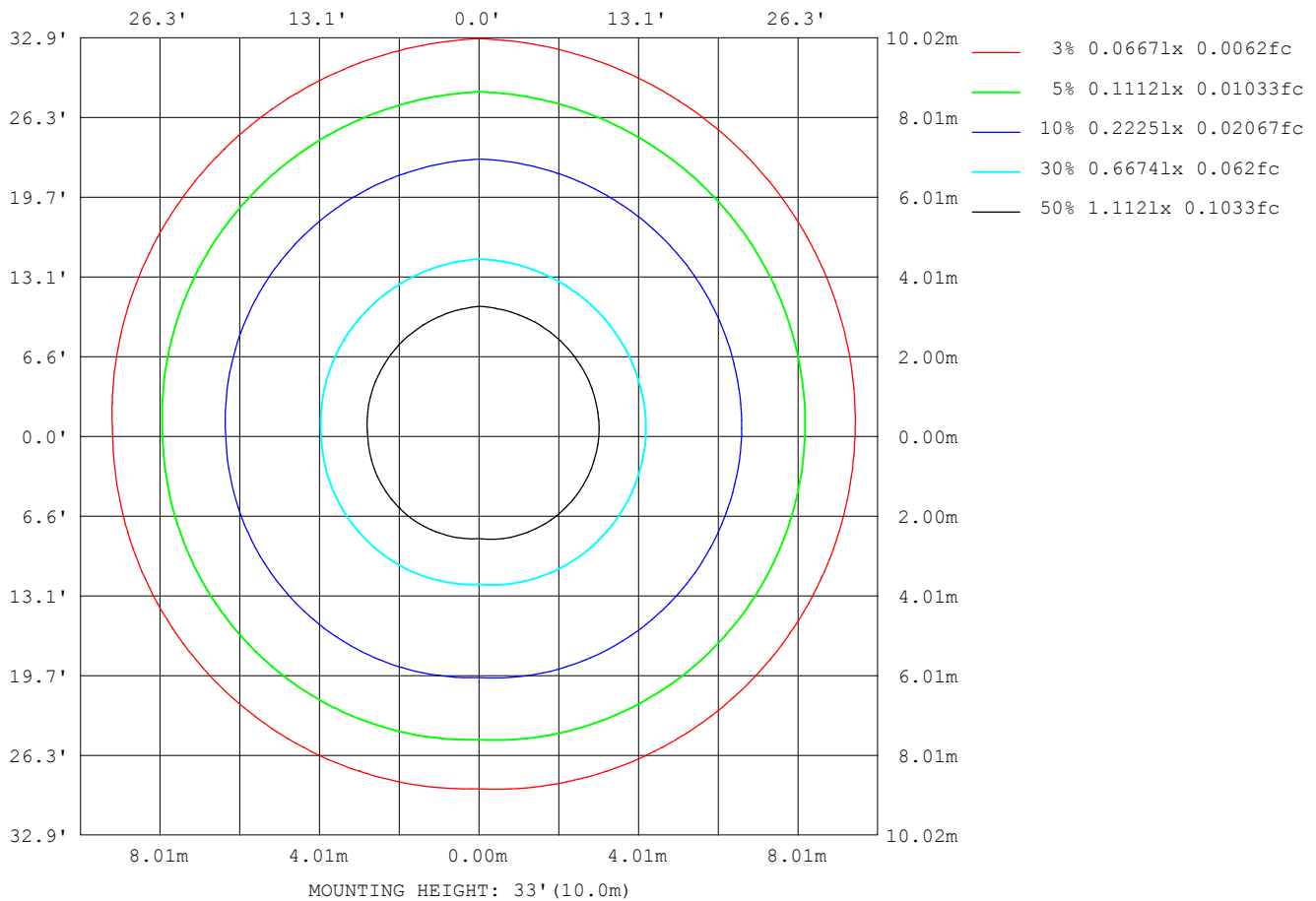
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ADMIN
 Test Date:2025-05-16

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:12.08V I:0.4396A P:3.383W PF:0.6370 Freq:59.99Hz Lamp Flux:132.828x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W 4110K 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:2025-05-16

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:12.08V I:0.4396A P:3.383W PF:0.6370 Freq:59.99Hz Lamp Flux:132.828x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W 4110K 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

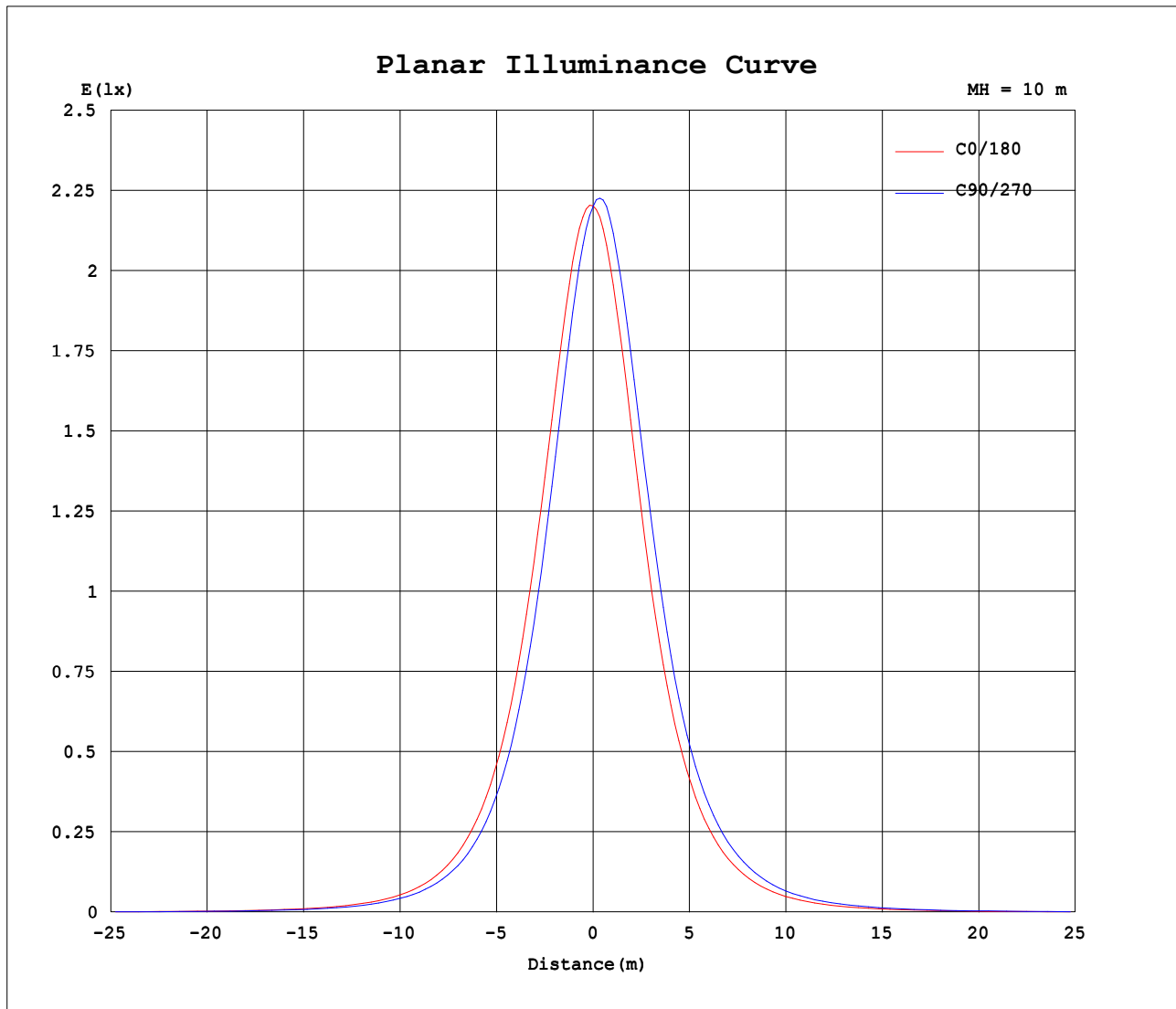
AvgL	cd/m2
L_0~180 (65) av	73
L_0~180 (75) av	50
L_0~180 (85) av	19
L_90~270 (65) av	78
L_90~270 (75) av	53
L_90~270 (85) av	22
L_45 (65) av	76
L_45 (75) av	52
L_45 (85) av	20

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2025-05-16

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: 2025-05-16

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:12.08V I:0.4396A P:3.383W PF:0.6370 Freq:59.99Hz Lamp Flux:132.828x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W 4110K 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	220	220	220	220															
5	211	197	205	219															
10	180	158	171	192															
15	140	118	130	154															
20	103	83.3	93.0	115															
25	72.1	57.4	65.3	81.6															
30	49.7	39.1	44.7	57.3															
35	33.7	26.4	30.4	39.8															
40	22.7	17.9	20.6	27.5															
45	15.3	12.1	13.9	18.8															
50	10.3	8.23	9.44	12.8															
55	6.97	5.59	6.41	8.79															
60	4.79	3.80	4.42	6.00															
65	3.22	2.59	2.98	4.03															
70	2.15	1.72	1.98	2.68															
75	1.33	1.06	1.23	1.70															
80	0.72	0.54	0.63	0.98															
85	0.20	0.00	0.12	0.38															
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	0.01	0.00	0.00															
130	0.00	0.11	0.00	0.00															
135	0.14	0.26	0.04	0.00															
140	0.29	0.43	0.15	0.02															
145	0.46	0.61	0.32	0.15															
150	0.63	0.81	0.50	0.32															
155	0.88	1.00	0.67	0.54															
160	1.03	1.13	0.85	0.76															
165	1.10	1.21	1.00	0.89															
170	1.20	1.21	1.12	1.06															
175	1.21	1.22	1.20	1.16															
180	1.22	1.22	1.21	1.22															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2025-05-16

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