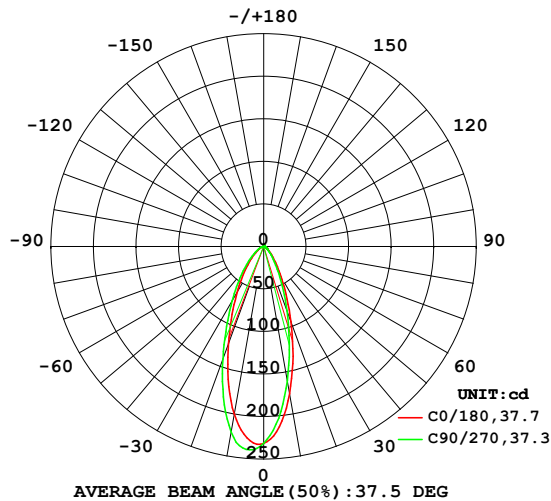


LUMINAIRE PHOTOMETRIC TEST REPORT

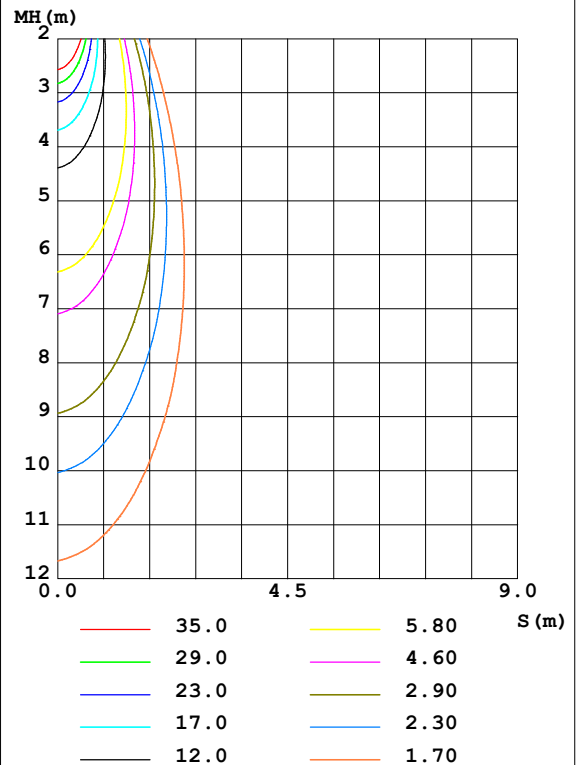
Test:U:12.09V I:0.4144A P:3.179W PF:0.6344 Freq:59.99Hz Lamp Flux:147.81x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W GREEN 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 46.50 lm/W			
MODEL:GO-3.5W-MR16-40-8-RGBTW		Imax(cd)	239.6	S/MH(C0/180)	0.66
NOMINAL POWER(W)	3.5	LOR(%)	100.0	S/MH(C90/270)	0.74
RATED VOLTAGE(V)	12	TOTAL FLUX(lm)	147.81	η UP,DN(C0-180)	0.6,38.3
NOMINAL FLUX(lm)	147.81	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.3,60.8
LAMPS INSIDE	1	η up(%)	0.9	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	12	η down(%)	99.1	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:

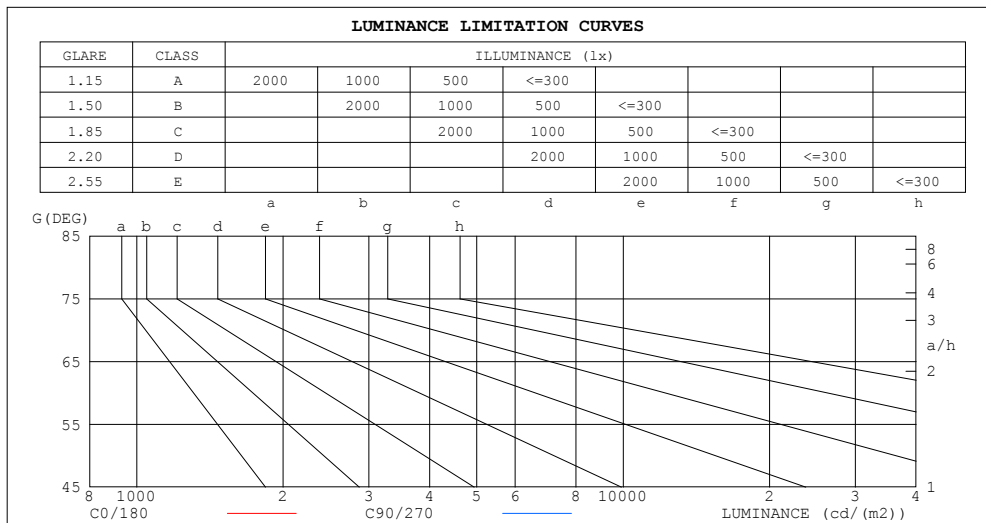
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	175.6	160.3	199.9	221.4					0- 10	20.02	20.02	13.5,13.5
20	93.86	80.49	121.5	140.5					10- 20	40.98	61.00	41.3,41.3
30	40.94	34.05	62.93	74.55					20- 30	35.43	96.44	65.2,65.2
40	17.55	14.69	30.69	37.47					30- 40	23.15	119.6	80.9,80.9
50	8.172	6.876	14.39	17.75					40- 50	13.51	133.1	90,90
60	4.123	3.510	6.596	8.199					50- 60	7.401	140.5	95.1,95.1
70	2.086	1.789	2.867	3.569					60- 70	3.874	144.4	97.7,97.7
80	0.8325	0.6122	0.8785	1.254					70- 80	1.755	146.1	98.9,98.9
90	0	0	0	0					80- 90	0.3624	146.5	99.1,99.1
100	0	0	0	0					90-100	0	146.5	99.1,99.1
110	0	0	0	0					100-110	0	146.5	99.1,99.1
120	0	0.0002	0	0					110-120	0.0000	146.5	99.1,99.1
130	0.1434	0.2300	0	0					120-130	0.0301	146.5	99.1,99.1
140	0.4495	0.6031	0.1150	0					130-140	0.1358	146.7	99.2,99.2
150	0.8985	1.024	0.4592	0.3060					140-150	0.2994	147.0	99.4,99.4
160	1.196	1.339	0.8611	0.7651					150-160	0.3962	147.4	99.7,99.7
170	1.380	1.406	1.215	1.128					160-170	0.3309	147.7	99.9,99.9
180	1.387	1.406	1.377	1.397					170-180	0.1269	147.8	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:12.09V I:0.4144A P:3.179W PF:0.6344 Freq:59.99Hz Lamp Flux:147.81x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W GREEN 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	32	13
80	48	35
75	54	45
70	61	52
65	70	61
60	82	70
55	100	84
50	127	107
45	168	141

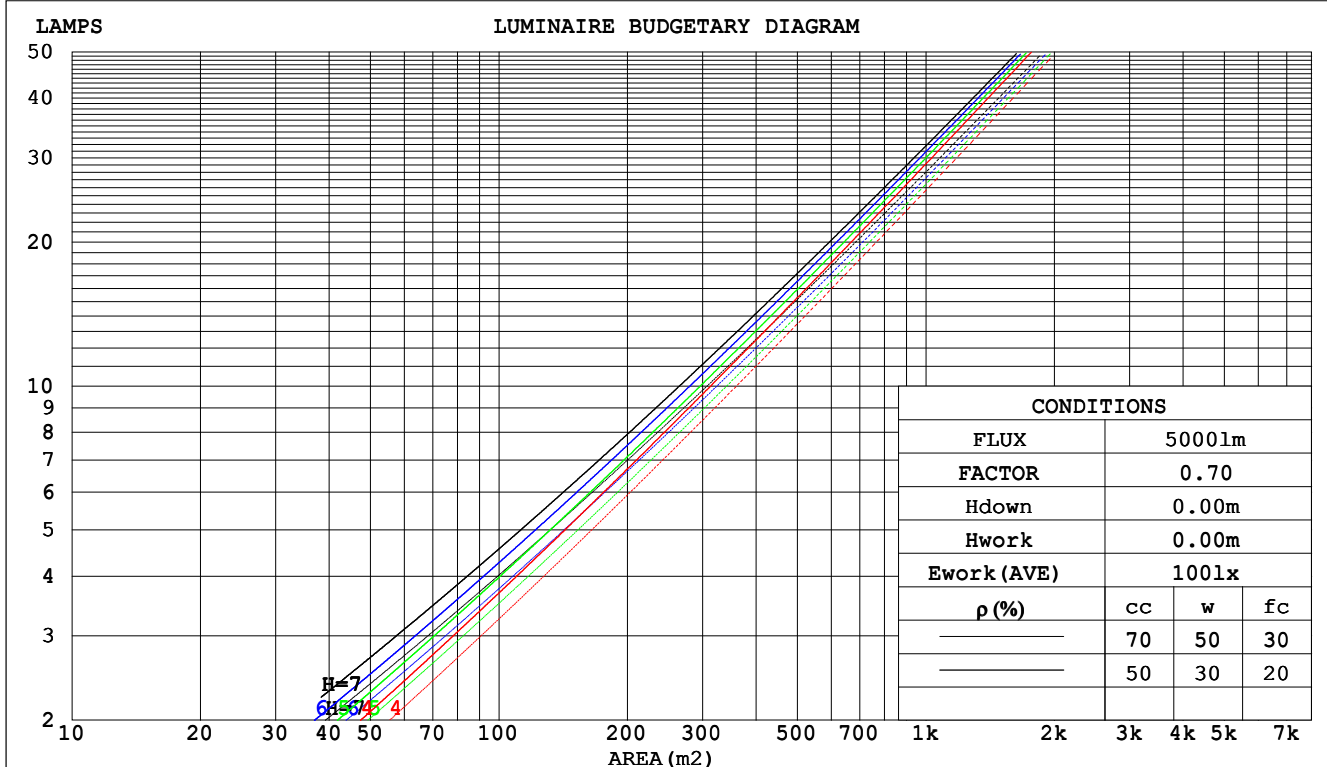
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2025-05-16

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:12.09V I:0.4144A P:3.179W PF:0.6344 Freq:59.99Hz Lamp Flux:147.81x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W GREEN 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						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	1.04	1.07	1.05	1.03	1.03	1.01	.99	.99	.98	.96	.96	.94	.93	.91
2.0	1.01	.97	.93	.99	.95	.92	.96	.93	.90	.93	.90	.88	.90	.88	.86	.84
3.0	.94	.88	.84	.92	.87	.83	.89	.85	.82	.87	.83	.80	.84	.81	.79	.77
4.0	.87	.81	.77	.86	.80	.76	.84	.79	.75	.81	.77	.74	.79	.76	.73	.72
5.0	.81	.75	.71	.80	.75	.70	.78	.73	.69	.77	.72	.69	.75	.71	.68	.66
6.0	.76	.70	.65	.75	.69	.65	.74	.69	.65	.72	.68	.64	.71	.67	.64	.62
7.0	.72	.65	.61	.71	.65	.61	.70	.64	.60	.68	.64	.60	.67	.63	.60	.58
8.0	.68	.61	.57	.67	.61	.57	.66	.61	.57	.65	.60	.56	.64	.59	.56	.55
9.0	.64	.58	.54	.63	.58	.54	.62	.57	.53	.61	.57	.53	.61	.56	.53	.52
10.0	.61	.55	.51	.60	.55	.51	.59	.54	.51	.59	.54	.50	.58	.53	.50	.49



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:12.09V I:0.4144A P:3.179W PF:0.6344 Freq:59.99Hz Lamp Flux:147.81x1 lm					
NAME: LED LANDSCAPE LIGHT			TYPE:MR16 RGBWW		WEIGHT:
SPEC.:3.5W GREEN 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	.196	.112	.035	.189	.108	.034	.176	.101	.032	.164	.094	.030	.153	.088	.029		
2.0	.187	.103	.031	.181	.100	.031	.170	.095	.029	.160	.090	.028	.150	.085	.027		
3.0	.177	.094	.028	.172	.092	.028	.162	.088	.027	.153	.084	.026	.145	.080	.025		
4.0	.167	.087	.026	.163	.085	.025	.154	.082	.024	.146	.079	.024	.139	.076	.023		
5.0	.158	.080	.023	.154	.079	.023	.147	.076	.022	.140	.074	.022	.133	.071	.021		
6.0	.149	.075	.021	.146	.074	.021	.139	.071	.021	.133	.069	.020	.128	.067	.020		
7.0	.142	.070	.020	.139	.069	.020	.133	.067	.019	.127	.065	.019	.122	.064	.019		
8.0	.134	.066	.018	.132	.065	.018	.127	.063	.018	.122	.062	.018	.117	.060	.018		
9.0	.128	.062	.017	.126	.061	.017	.121	.060	.017	.117	.058	.017	.112	.057	.016		
10.0	.122	.059	.016	.120	.058	.016	.116	.057	.016	.112	.055	.016	.108	.054	.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	.197	.197	.197	.169	.169	.169	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.179	.164	.150	.153	.141	.129	.105	.097	.089	.060	.056	.052	.019	.018	.017	
2.0	.165	.139	.118	.142	.120	.102	.097	.083	.071	.056	.048	.042	.018	.016	.014	
3.0	.154	.121	.094	.132	.104	.082	.090	.072	.057	.052	.042	.034	.017	.014	.011	
4.0	.144	.106	.078	.123	.092	.067	.085	.064	.047	.049	.037	.028	.016	.012	.009	
5.0	.135	.095	.065	.116	.082	.057	.080	.057	.040	.046	.034	.024	.015	.011	.008	
6.0	.127	.086	.055	.110	.074	.048	.076	.052	.034	.044	.030	.020	.014	.010	.007	
7.0	.121	.078	.048	.104	.068	.042	.072	.047	.030	.042	.028	.018	.013	.009	.006	
8.0	.115	.072	.042	.099	.062	.037	.068	.044	.026	.040	.026	.016	.013	.008	.005	
9.0	.110	.067	.038	.094	.058	.033	.065	.041	.023	.038	.024	.014	.012	.008	.005	
10.0	.105	.062	.034	.090	.054	.030	.063	.038	.021	.037	.022	.013	.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:12.09V I:0.4144A P:3.179W PF:0.6344 Freq:59.99Hz Lamp Flux:147.81x1 lm										
NAME: LED LANDSCAPE LIGHT					TYPE:MR16 RGBWW			WEIGHT:		
SPEC.:3.5W GREEN 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	0.9	1.9	1.1	2.1	2.3	0.2	1.2	0.4	1.4	1.6
3H	1.4	2.3	1.7	2.5	2.8	0.7	1.6	1.0	1.8	2.1
4H	1.6	2.5	1.9	2.7	3.0	0.9	1.7	1.2	2.0	2.2
6H	1.7	2.6	2.1	2.8	3.1	1.0	1.8	1.3	2.1	2.3
8H	1.8	2.6	2.1	2.9	3.1	1.0	1.8	1.3	2.1	2.3
12H	1.8	2.6	2.1	2.8	3.1	1.0	1.7	1.3	2.0	2.3
4H 2H	1.0	1.9	1.3	2.1	2.4	0.4	1.3	0.7	1.5	1.8
3H	1.7	2.4	2.0	2.7	3.0	1.0	1.8	1.4	2.1	2.4
4H	2.0	2.7	2.3	3.0	3.3	1.3	2.0	1.7	2.3	2.7
6H	2.2	2.8	2.6	3.2	3.5	1.5	2.1	1.9	2.5	2.8
8H	2.3	2.8	2.7	3.2	3.6	1.5	2.1	2.0	2.5	2.9
12H	2.3	2.8	2.7	3.2	3.6	1.5	2.0	2.0	2.4	2.8
8H 4H	2.0	2.6	2.4	2.9	3.3	1.4	2.0	1.8	2.3	2.7
6H	2.3	2.8	2.8	3.2	3.6	1.7	2.1	2.1	2.6	3.0
8H	2.4	2.9	2.9	3.3	3.8	1.7	2.2	2.2	2.6	3.1
12H	2.5	2.9	3.0	3.3	3.8	1.7	2.1	2.2	2.6	3.0
12H 4H	2.0	2.5	2.4	2.9	3.3	1.4	1.9	1.8	2.3	2.7
6H	2.3	2.7	2.8	3.2	3.6	1.7	2.1	2.1	2.5	3.0
8H	2.5	2.8	2.9	3.3	3.8	1.8	2.1	2.2	2.6	3.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 1.0					+ 0.8 / - 1.1				
1.5H	+ 1.4 / - 0.8					+ 1.1 / - 0.9				
2.0H	+ 1.6 / - 1.0					+ 1.5 / - 1.1				

CIE Pub.117 Corrected 147.8 lm Total Lamp Luminous Flux. (8log(F/F0) = -6.6)

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:12.09V I:0.4144A P:3.179W PF:0.6344 Freq:59.99Hz Lamp Flux:147.81x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W GREEN 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

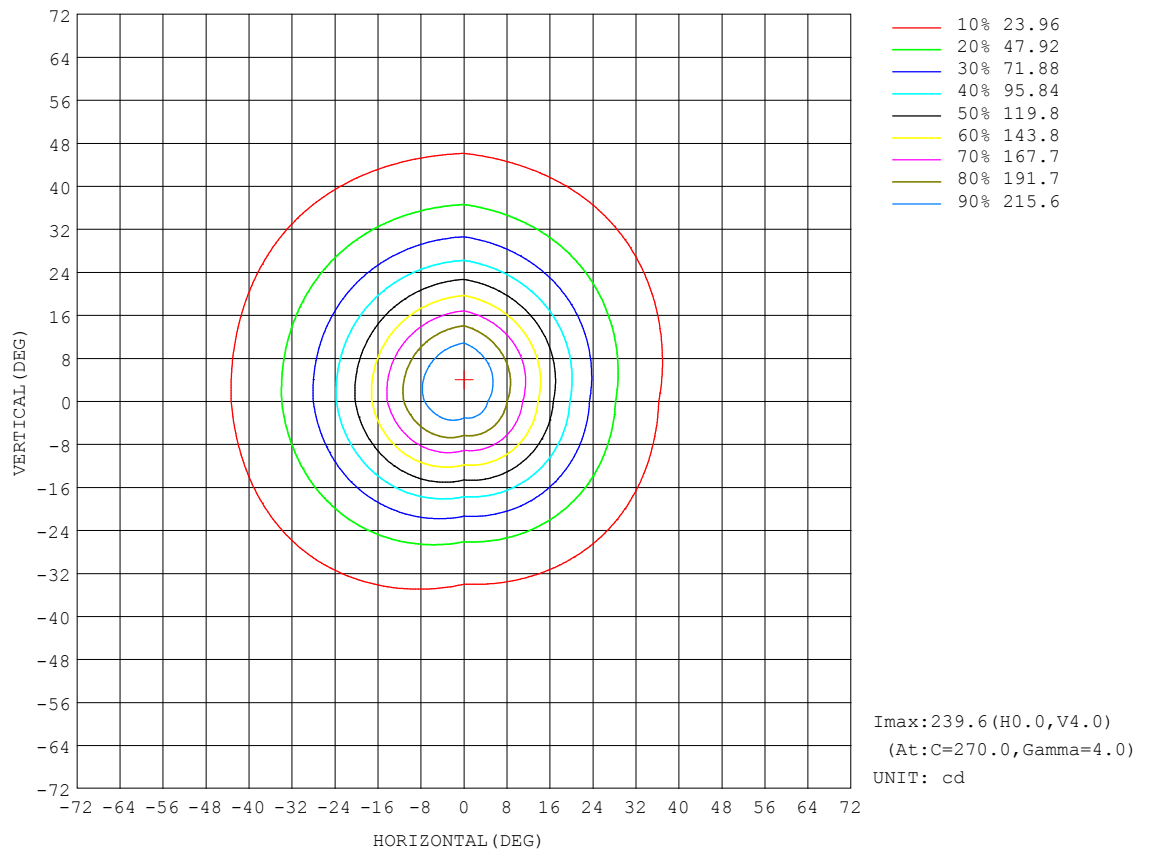
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	80	72	67	79	72	67	78	71	67	63
0.80	88	81	76	87	80	76	86	80	75	71
1.00	94	87	82	93	86	82	91	86	81	77
1.25	98	92	88	97	91	87	95	90	86	81
1.50	102	96	92	100	95	91	98	93	90	85
2.00	105	100	96	104	99	96	101	97	94	88
2.50	108	103	99	106	102	98	102	99	96	90
3.00	110	105	102	108	104	101	104	101	99	92
4.00	112	109	106	110	107	104	106	103	102	94
5.00	113	111	108	111	109	107	107	105	103	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:12.09V I:0.4144A P:3.179W PF:0.6344 Freq:59.99Hz Lamp Flux:147.81x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W GREEN 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

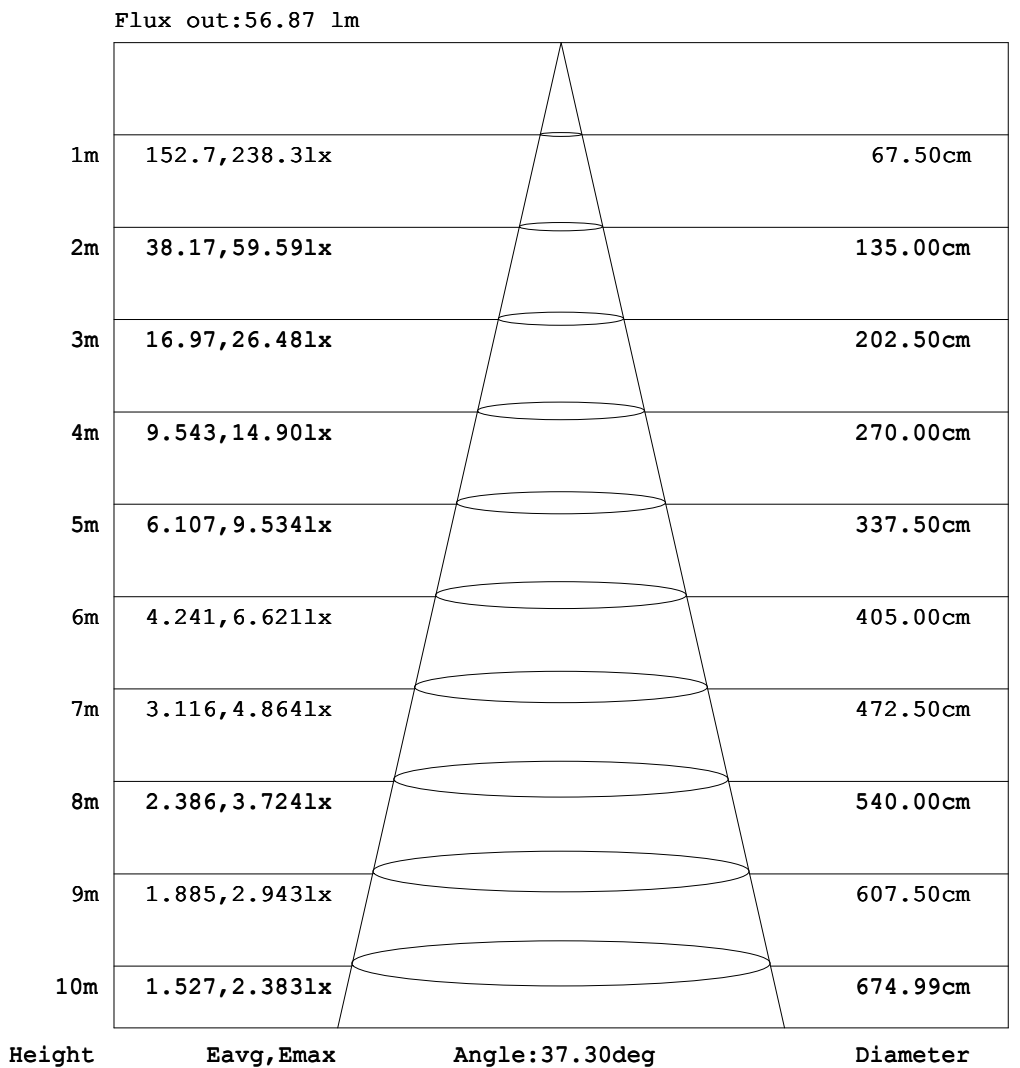


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2025-05-16

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:12.09V I:0.4144A P:3.179W PF:0.6344 Freq:59.99Hz Lamp Flux:147.81x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W GREEN 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



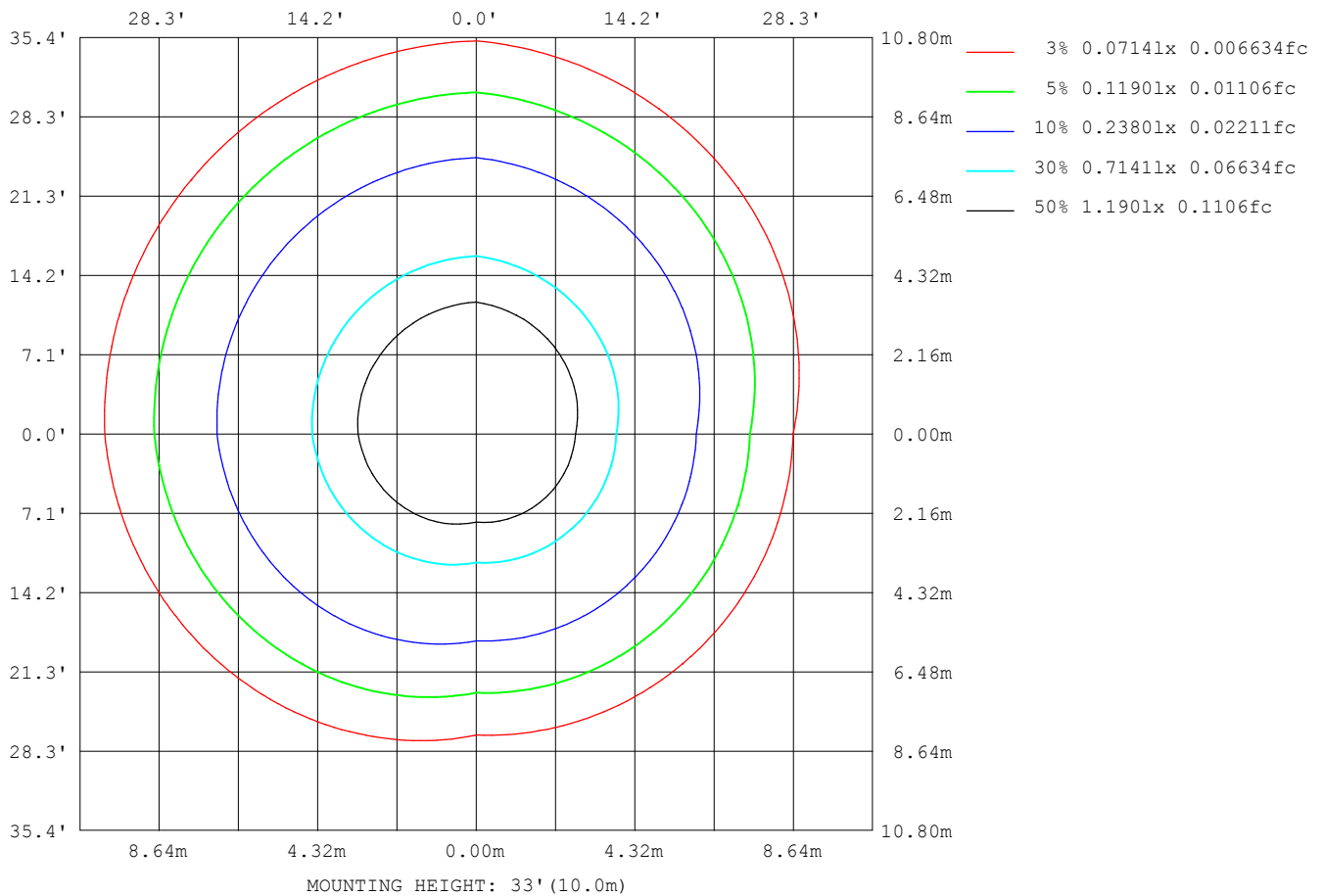
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:12.09V I:0.4144A P:3.179W PF:0.6344 Freq:59.99Hz Lamp Flux:147.81x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W GREEN 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:12.09V I:0.4144A P:3.179W PF:0.6344 Freq:59.99Hz Lamp Flux:147.81x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W GREEN 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

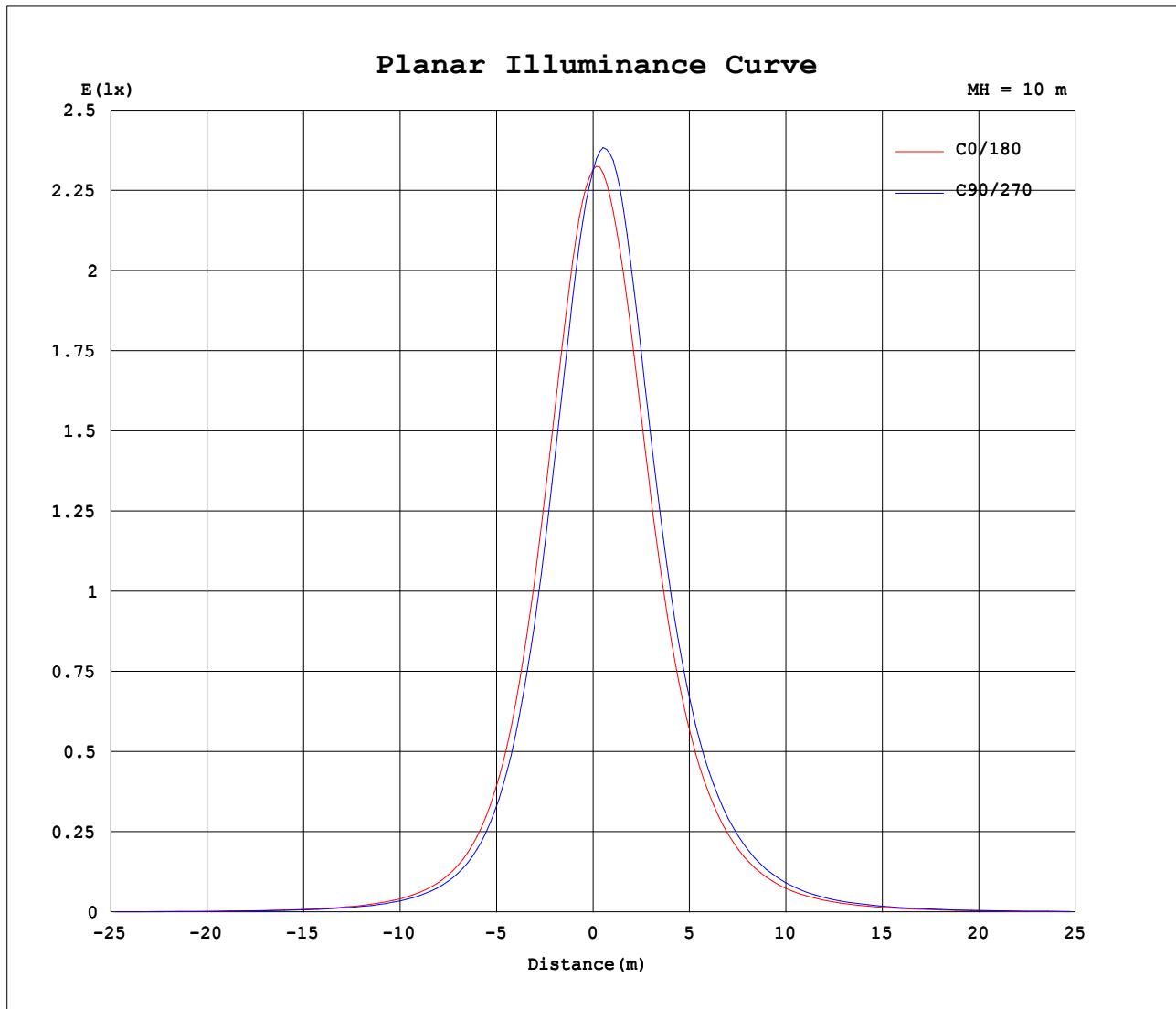
AvgL	cd/m2
L_0~180 (65) av	87
L_0~180 (75) av	60
L_0~180 (85) av	30
L_90~270 (65) av	95
L_90~270 (75) av	65
L_90~270 (85) av	36
L_45 (65) av	93
L_45 (75) av	64
L_45 (85) av	34

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:12.09V I:0.4144A P:3.179W PF:0.6344 Freq:59.99Hz Lamp Flux:147.81x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:MR16 RGBWW	WEIGHT:
SPEC.:3.5W GREEN 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	231	231	231	231															
5	213	203	226	239															
10	176	160	200	221															
15	134	117	162	183															
20	93.9	80.5	122	141															
25	62.6	53.1	88.3	103															
30	40.9	34.1	62.9	74.5															
35	26.6	22.1	44.3	53.3															
40	17.6	14.7	30.7	37.5															
45	11.9	9.97	21.1	25.9															
50	8.17	6.88	14.4	17.7															
55	5.75	4.82	9.78	12.1															
60	4.12	3.51	6.60	8.20															
65	2.97	2.56	4.39	5.47															
70	2.09	1.79	2.87	3.57															
75	1.40	1.16	1.70	2.23															
80	0.83	0.61	0.88	1.25															
85	0.28	0.11	0.25	0.51															
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	0.10	0.00	0.00															
130	0.14	0.23	0.00	0.00															
135	0.28	0.40	0.00	0.00															
140	0.45	0.60	0.11	0.00															
145	0.66	0.82	0.26	0.19															
150	0.90	1.02	0.46	0.31															
155	1.06	1.21	0.67	0.55															
160	1.20	1.34	0.86	0.77															
165	1.35	1.40	1.05	0.93															
170	1.38	1.41	1.21	1.13															
175	1.38	1.41	1.33	1.28															
180	1.39	1.41	1.38	1.40															

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: