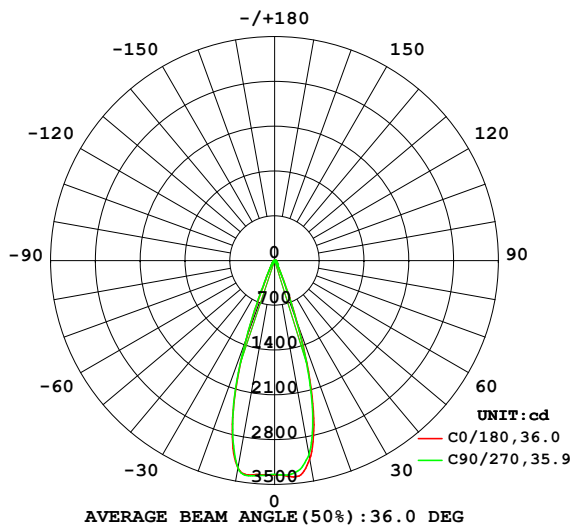


LUMINAIRE PHOTOMETRIC TEST REPORT

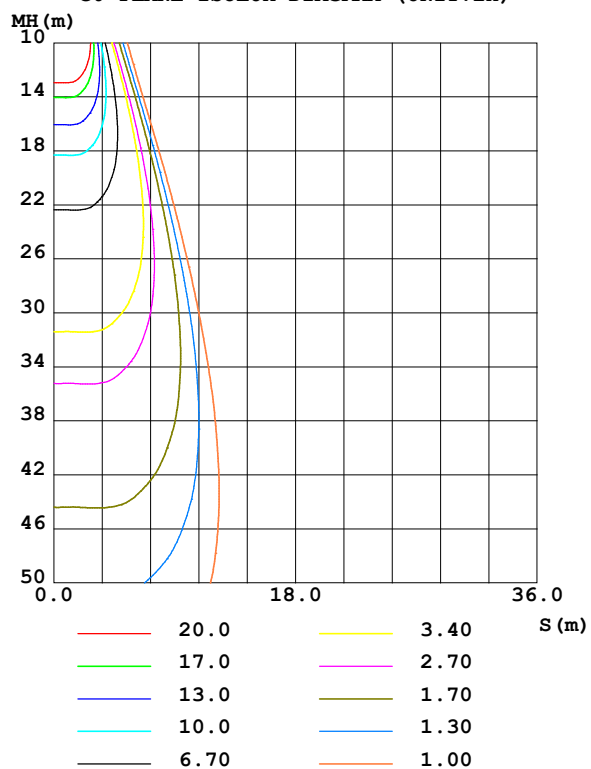
NAME: TL45-15G40-36-S	TYPE:	WEIGHT:
SPEC.: 36V&350mA	DIM.: D80*H40	SERIAL No.:
MFR.: EVERFINE	SUR.: D58	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 88.11 lm/W
MODEL	4000K CRI90	I _{max} (cd)	3395	S/MH(C0/180)	0.54	
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	0.55	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1268.7	η UP,DN(C0-180)	0.0,47.2	
NOMINAL FLUX(lm)	1268.73	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,52.8	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	225	η down (%)	100.0	CIBSE SHR MAX	0.50	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2021-03-16

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity: 65.0%
Test Distance: 8.413m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	3157	3094	3083	3173	3296	3300	3293	3234	0- 10	317.2	317.2	25,25
20	1033	996.8	1006	1080	1266	1320	1315	1201	10- 20	625.7	942.9	74.3,74.3
30	123.8	126.2	129.2	130.8	157.3	163.6	162.7	151.6	20- 30	192.0	1135	89.5,89.5
40	44.96	46.03	46.27	45.54	63.45	65.37	64.00	61.16	30- 40	54.68	1190	93.8,93.8
50	23.18	22.83	22.88	22.89	35.50	37.08	36.45	34.42	40- 50	30.56	1220	96.2,96.2
60	14.88	14.57	14.65	14.86	23.04	23.73	23.25	22.30	50- 60	21.04	1241	97.8,97.8
70	9.057	8.903	8.887	8.941	13.81	14.18	13.96	13.61	60- 70	14.87	1256	99,99
80	4.284	4.263	4.258	4.210	6.905	7.032	7.031	6.858	70- 80	8.756	1265	99.7,99.7
90	1.828	1.860	1.797	1.791	3.181	3.191	3.176	3.139	80- 90	3.947	1269	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		

Conical surface Flux(90deg): 1206.5 lm

%lum = 95.1%

%lamp = 95.1%

Conical surface Flux(120deg): 1241.2 lm

%lum = 97.8%

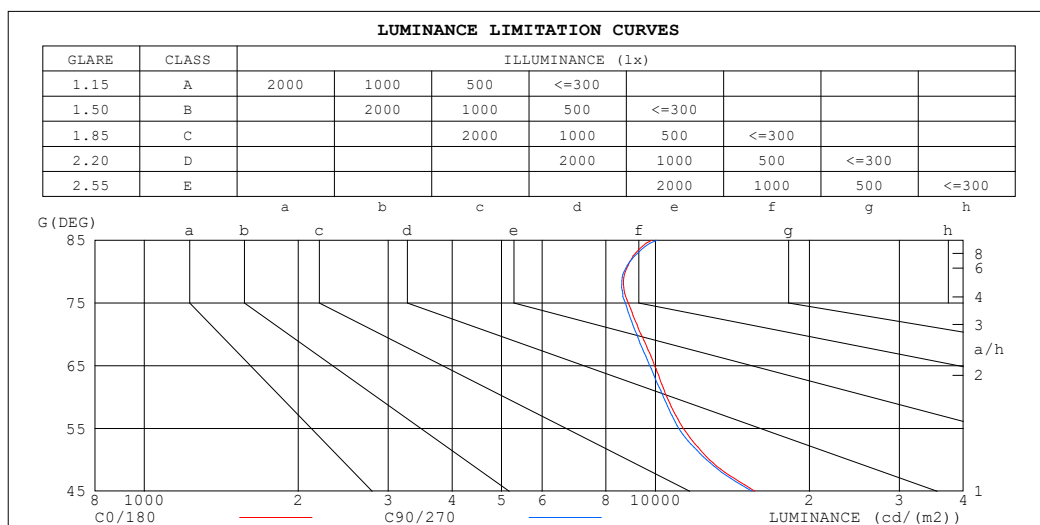
%lamp = 97.8%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-03-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
 Humidity:65.0%
 Test Distance:8.413m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

NAME: TL45-15G40-36-S	TYPE:	WEIGHT:
SPEC.: 36V&350mA	DIM.: D80*H40	SERIAL No.:
MFR.: EVERFINE	SUR.: D58	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	9822	10077
80	8730	8676
75	8843	8727
70	9371	9195
65	9960	9743
60	10527	10370
55	11337	11108
50	12760	12595
45	15628	15444

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-03-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:8.413m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: TL45-15G40-36-S	TYPE:	WEIGHT:
SPEC.: 36V&350mA	DIM.: D80*H40	SERIAL No.:
MFR.: EVERFINE	SUR.: D58	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	.157	.089	.028	.151	.086	.027	.138	.079	.025	.127	.073	.023	.116	.067	.022		
2.0	.146	.080	.025	.140	.077	.024	.130	.072	.022	.120	.067	.021	.111	.063	.020		
3.0	.136	.072	.022	.131	.070	.021	.122	.066	.020	.114	.063	.019	.107	.059	.018		
4.0	.127	.066	.019	.123	.064	.019	.116	.061	.018	.109	.058	.018	.102	.056	.017		
5.0	.119	.061	.018	.116	.060	.017	.110	.057	.017	.104	.055	.016	.098	.053	.016		
6.0	.113	.057	.016	.110	.056	.016	.104	.054	.016	.099	.052	.015	.094	.050	.015		
7.0	.107	.053	.015	.104	.052	.015	.100	.050	.015	.095	.049	.014	.091	.047	.014		
8.0	.102	.050	.014	.100	.049	.014	.095	.048	.014	.091	.046	.013	.088	.045	.013		
9.0	.097	.047	.013	.095	.046	.013	.091	.045	.013	.088	.044	.013	.085	.043	.012		
10.0	.093	.045	.012	.091	.044	.012	.088	.043	.012	.085	.042	.012	.082	.041	.012		

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.170	.157	.146	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016		
2.0	.153	.133	.116	.131	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013		
3.0	.139	.113	.093	.119	.098	.081	.082	.068	.057	.047	.040	.033	.015	.013	.011		
4.0	.127	.098	.077	.109	.085	.066	.075	.059	.047	.043	.035	.028	.014	.011	.009		
5.0	.117	.086	.064	.100	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008		
6.0	.108	.076	.054	.093	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.006		
7.0	.101	.068	.046	.087	.059	.040	.060	.042	.028	.035	.024	.017	.011	.008	.006		
8.0	.094	.062	.039	.081	.054	.034	.056	.038	.024	.033	.022	.015	.011	.007	.005		
9.0	.089	.056	.034	.076	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004		
10.0	.084	.052	.030	.072	.045	.026	.050	.032	.019	.029	.019	.011	.009	.006	.004		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-03-16

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:8.413m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: TL45-15G40-36-S					TYPE:					WEIGHT:				
SPEC.: 36V&350mA					DIM.: D80*H40					SERIAL No.:				
MFR.: EVERFINE					SUR.: D58					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					13.0	13.7	13.2	13.9	14.0	13.0	13.7	13.2	13.9	14.0
3H					14.0	14.7	14.2	14.9	15.1	14.0	14.7	14.2	14.8	15.0
4H					14.5	15.1	14.7	15.4	15.6	14.4	15.1	14.7	15.3	15.5
6H					14.9	15.5	15.2	15.7	16.0	14.8	15.4	15.1	15.7	15.9
8H					15.0	15.7	15.3	15.9	16.2	15.0	15.6	15.3	15.8	16.1
12H					15.2	15.8	15.5	16.0	16.3	15.1	15.7	15.5	16.0	16.3
4H 2H					13.3	14.0	13.6	14.2	14.4	13.3	14.0	13.6	14.2	14.4
3H					14.6	15.2	14.9	15.5	15.7	14.6	15.1	14.9	15.4	15.7
4H					15.2	15.7	15.5	16.0	16.3	15.1	15.7	15.5	16.0	16.3
6H					15.7	16.2	16.1	16.5	16.9	15.7	16.1	16.0	16.5	16.8
8H					16.0	16.4	16.4	16.8	17.1	15.9	16.4	16.3	16.7	17.1
12H					16.2	16.6	16.6	17.0	17.3	16.1	16.5	16.5	16.9	17.3
8H 4H					15.4	15.9	15.8	16.2	16.6	15.4	15.8	15.7	16.1	16.5
6H					16.1	16.5	16.5	16.9	17.3	16.0	16.4	16.5	16.8	17.2
8H					16.4	16.8	16.9	17.2	17.6	16.4	16.7	16.8	17.1	17.5
12H					16.7	17.0	17.2	17.5	17.9	16.7	17.0	17.2	17.4	17.9
12H 4H					15.4	15.8	15.8	16.2	16.6	15.4	15.8	15.8	16.1	16.5
6H					16.1	16.5	16.6	16.9	17.3	16.1	16.4	16.5	16.8	17.3
8H					16.5	16.8	17.0	17.2	17.7	16.5	16.8	16.9	17.2	17.7
Variations with the observer position at spacings(CIE Pub.117):														
S = 1.0H					+ 0.4 / - 0.5					+ 0.4 / - 0.5				
1.5H					+ 0.5 / - 0.3					+ 0.7 / - 0.4				
2.0H					+ 0.5 / - 0.3					+ 0.5 / - 0.3				

CIE Pub.117, 1269 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.8)
Area: 0.002826 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-03-16

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:8.413m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: TL45-15G40-36-S	TYPE:	WEIGHT:
SPEC.: 36V&350mA	DIM.: D80*H40	SERIAL No.:
MFR.: EVERFINE	SUR.: D58	Shielding Angle:

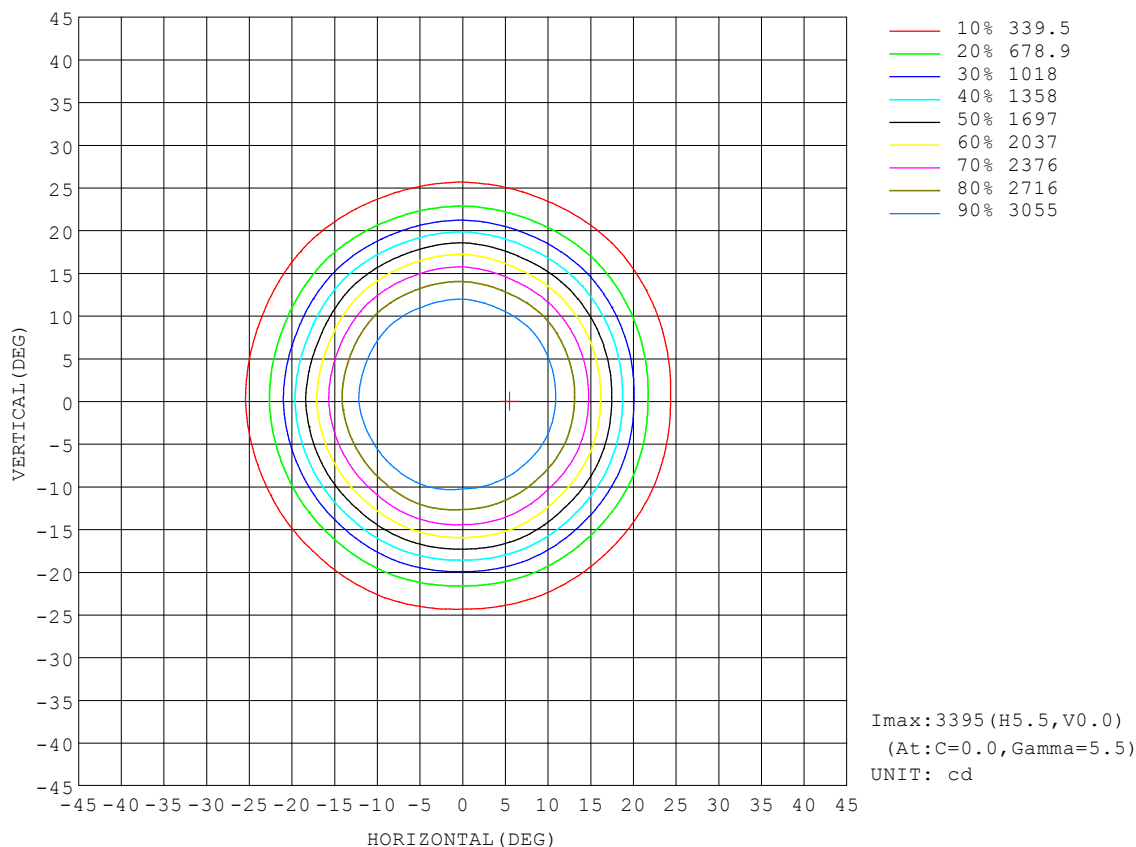
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	88	81	78	87	81	78	86	81	77	74
0.80	95	89	85	94	89	85	93	88	85	81
1.00	99	94	90	98	93	90	97	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	98	105	100	97	102	99	96	92
2.00	108	104	101	107	103	100	104	101	99	93
2.50	110	106	103	108	105	102	105	103	100	94
3.00	112	108	105	110	107	104	106	104	102	96
4.00	114	111	109	112	109	107	108	106	105	97
5.00	115	113	111	113	111	109	109	107	106	99
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2021-03-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity: 65.0%
Test Distance: 8.413m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: TL45-15G40-36-S	TYPE:	WEIGHT:
SPEC.: 36V&350mA	DIM.: D80*H40	SERIAL No.:
MFR.: EVERFINE	SUR.: D58	Shielding Angle:

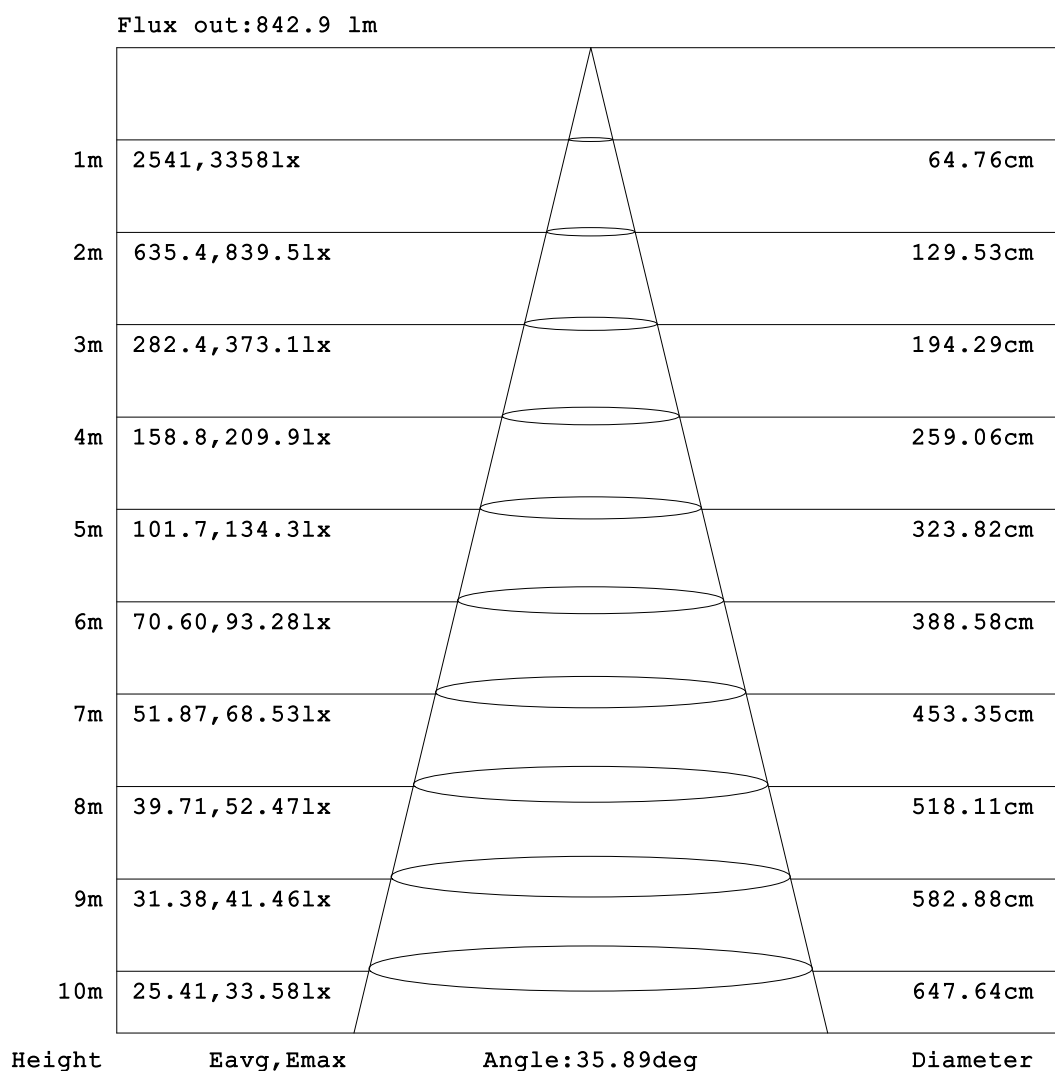


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2021-03-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity: 65.0%
Test Distance: 8.413m [K=1.0000]
Remarks:

AAI Figure

NAME: TL45-15G40-36-S	TYPE:	WEIGHT:
SPEC.: 36V&350mA	DIM.: D80*H40	SERIAL No.:
MFR.: EVERFINE	SUR.: D58	Shielding Angle:

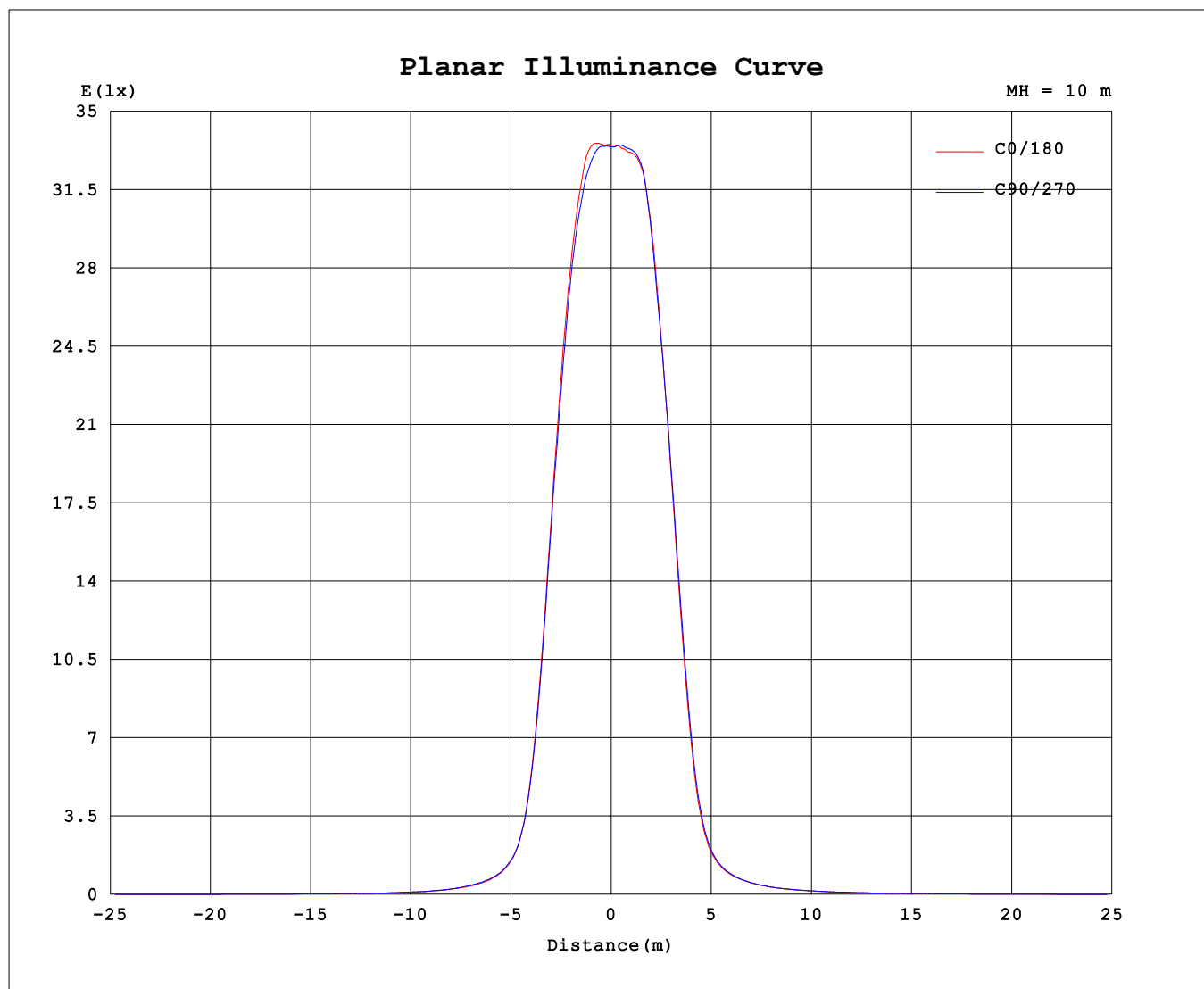


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2021-03-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.454
 Humidity: 65.0%
 Test Distance: 8.413m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2021-03-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.454
 Humidity: 65.0%
 Test Distance: 8.413m [K=1.0000]
 Remarks:

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γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:8.413m [K=1.0000]
Remarks:

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