

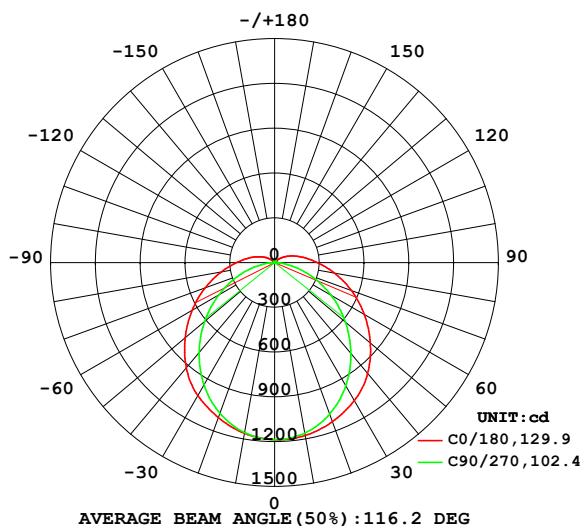


LUMINAIRE PHOTOMETRIC TEST REPORT

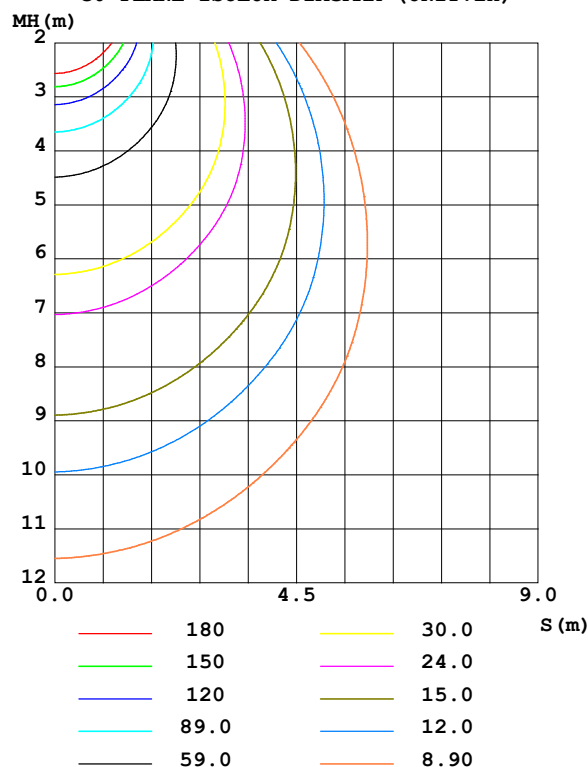
Test:U:230.15V I:0.1128A P:25.000W PF:0.9628 Freq:49.99Hz Lamp Flux:4000x1 lm		
NAME: 0028920277 4000K 25W 4000lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 160.00 lm/W
MODEL		I _{max} (cd)	1188	S/MH (C0/180)		1.34
NOMINAL POWER(W)		LOR (%)	100.0	S/MH (C90/270)		1.20
RATED VOLTAGE(V)		TOTAL FLUX(lm)	4000.0	η UP,DN (C0-180)		3.8,45.0
NOMINAL FLUX(lm)	4000	CIE CLASS	DIRECT	η UP,DN (C180-360)		4.2,47.0
LAMPS INSIDE	1	η up (%)	8.0	CIBSE SHR NOM		1.25
TEST VOLTAGE(V)	230	η down (%)	92.0	CIBSE SHR MAX		1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: Testing Room
Test Date: 2025-11-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.471
Humidity: 65.0%
Test Distance: 11.050m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	1162	1157	1177	1160					0- 10	112.2	112.2	2.8,2.8
20	1105	1074	1134	1080					10- 20	320.5	432.7	10.8,10.8
30	1029	947.0	1068	953.9					20- 30	485.1	917.8	22.9,22.9
40	920.4	787.6	970.1	795.2					30- 40	586.9	1505	37.6,37.6
50	782.2	611.6	837.7	618.7					40- 50	611.3	2116	52.9,52.9
60	637.8	430.3	694.3	436.7					50- 60	564.9	2681	67,67
70	495.8	255.1	548.5	258.9					60- 70	464.6	3145	78.6,78.6
80	363.0	98.80	406.7	100.00					70- 80	331.5	3477	86.9,86.9
90	255.6	11.02	286.1	11.65					80- 90	201.6	3678	92,92
100	178.1	6.763	200.1	6.712					90-100	129.6	3808	95.2,95.2
110	118.3	4.807	133.2	4.595					100-110	85.27	3893	97.3,97.3
120	70.86	5.937	80.14	5.338					110-120	52.19	3946	98.6,98.6
130	32.79	7.177	39.13	6.463					120-130	27.62	3973	99.3,99.3
140	12.60	8.297	12.53	7.623					130-140	11.44	3985	99.6,99.6
150	11.75	9.348	11.67	8.784					140-150	6.463	3991	99.8,99.8
160	11.24	10.16	11.23	9.894					150-160	4.861	3996	99.9,99.9
170	11.00	10.86	10.65	10.70					160-170	3.042	3999	100,100
180	10.97	11.26	10.92	11.16					170-180	1.041	4000	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1812.1 lm

%lum = 45.3%

%lamp = 45.3%

Conical surface Flux(120deg): 2680.8 lm

%lum = 67.0%

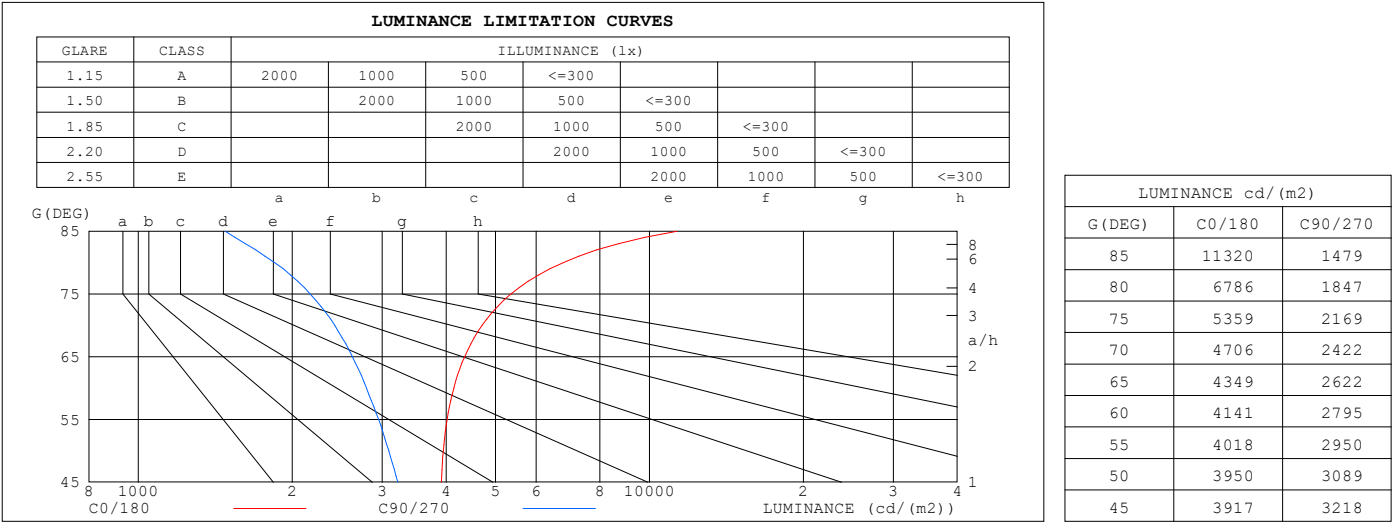
%lamp = 67.0%

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:Testing Room
 Test Date:2025-11-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:11.050m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.15V I:0.1128A P:25.000W PF:0.9628 Freq:49.99Hz Lamp Flux:4000x1 lm		
NAME: 0028920277 3000K 25W 4000lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



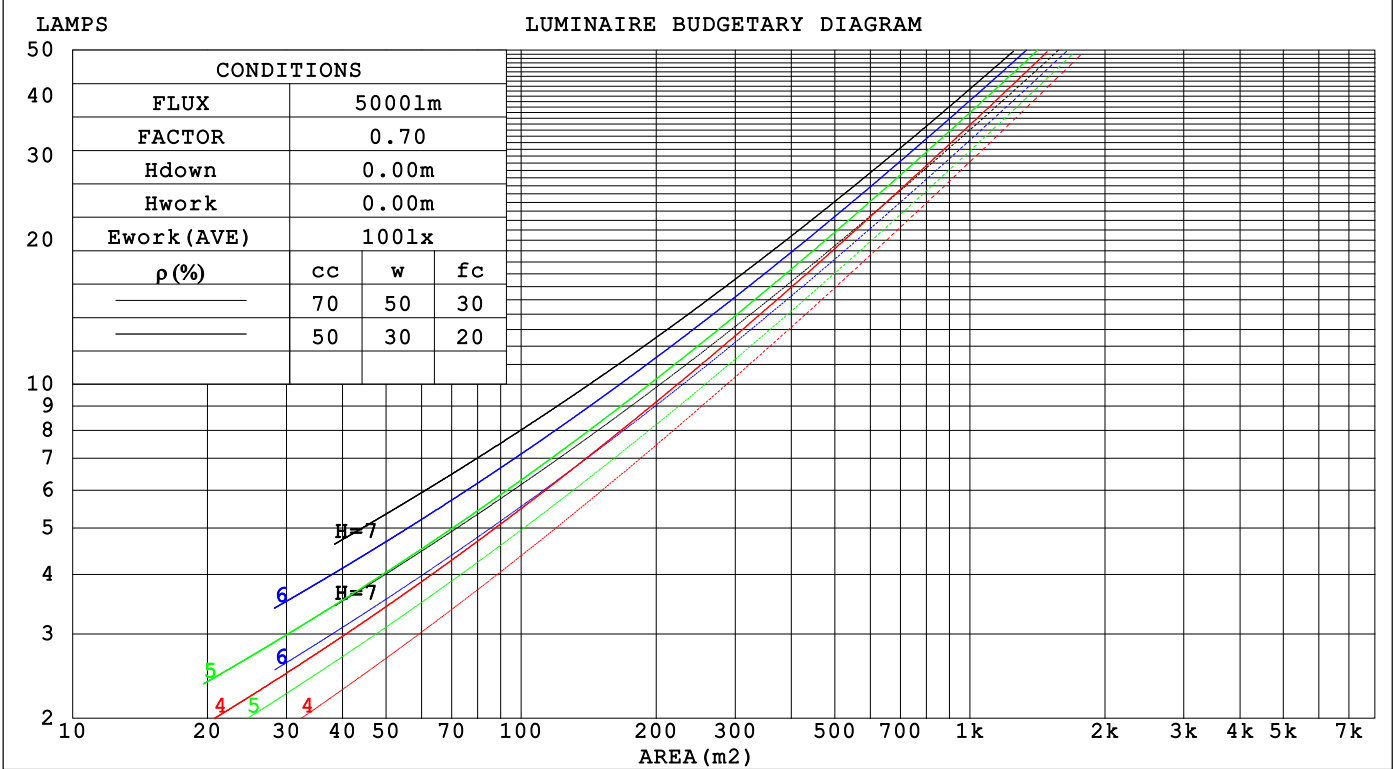
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Testing Room
Test Date:2025-11-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:11.050m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.15V I:0.1128A P:25.000W PF:0.9628 Freq:49.99Hz		
Lamp Flux:4000x1 lm		
NAME: 0028920277 3000K 25W 4000lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	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	1.17	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	.00	.95	.91	.97	.92	.88	.91	.87	.84	.86	.83	.80	.81	.78	.76	.74
2.0	.86	.79	.73	.84	.77	.71	.79	.73	.68	.74	.70	.66	.70	.66	.63	.60
3.0	.75	.67	.60	.73	.65	.59	.69	.62	.57	.65	.59	.55	.62	.57	.53	.50
4.0	.67	.57	.50	.65	.56	.50	.61	.54	.48	.58	.52	.47	.55	.49	.45	.43
5.0	.59	.50	.43	.58	.49	.43	.55	.47	.41	.52	.45	.40	.49	.43	.39	.37
6.0	.53	.44	.38	.52	.43	.37	.49	.42	.36	.47	.40	.35	.44	.39	.34	.32
7.0	.48	.39	.33	.47	.39	.33	.45	.37	.32	.43	.36	.31	.41	.35	.30	.28
8.0	.44	.35	.29	.43	.35	.29	.41	.34	.28	.39	.32	.28	.37	.31	.27	.25
9.0	.40	.32	.26	.39	.31	.26	.38	.30	.26	.36	.30	.25	.34	.29	.24	.22
10.0	.37	.29	.24	.36	.29	.24	.35	.28	.23	.33	.27	.23	.32	.26	.22	.20



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Testing Room
Test Date:2025-11-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:11.050m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.15V I:0.1128A P:25.000W PF:0.9628 Freq:49.99Hz Lamp Flux:4000x1 lm		
NAME: 0028920277 3000K 25W 4000lm	TYPE:	WEIGHT:
SPEC.:	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	.350	.199	.063	.340	.194	.062	.322	.185	.059	.306	.176	.057	.290	.168	.054		
2.0	.313	.172	.053	.305	.168	.052	.288	.160	.050	.274	.153	.048	.260	.147	.046		
3.0	.283	.151	.045	.275	.148	.044	.261	.141	.043	.248	.136	.042	.235	.130	.040		
4.0	.258	.134	.039	.251	.131	.039	.238	.126	.038	.226	.121	.037	.215	.117	.036		
5.0	.236	.120	.035	.230	.118	.034	.218	.114	.033	.207	.109	.033	.197	.105	.032		
6.0	.218	.109	.031	.212	.107	.031	.201	.103	.030	.192	.100	.029	.182	.096	.029		
7.0	.202	.100	.028	.196	.098	.028	.187	.095	.027	.178	.091	.027	.170	.088	.026		
8.0	.188	.092	.026	.183	.090	.025	.174	.087	.025	.166	.084	.024	.158	.081	.024		
9.0	.175	.085	.024	.171	.083	.023	.163	.081	.023	.156	.078	.022	.149	.076	.022		
10.0	.164	.079	.022	.161	.078	.022	.153	.075	.021	.147	.073	.021	.140	.070	.020		

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	.215	.215	.215	.147	.147	.147	.084	.084	.084	.027	.027	.027	
1.0	.245	.218	.193	.209	.187	.166	.143	.128	.115	.082	.074	.067	.026	.024	.022	
2.0	.237	.194	.158	.203	.167	.136	.139	.116	.095	.080	.067	.056	.026	.022	.018	
3.0	.230	.177	.135	.197	.153	.117	.135	.106	.082	.078	.062	.048	.025	.020	.016	
4.0	.222	.164	.120	.190	.142	.104	.131	.099	.073	.076	.058	.043	.024	.019	.014	
5.0	.214	.154	.109	.184	.133	.095	.127	.093	.067	.073	.055	.040	.024	.018	.013	
6.0	.207	.146	.102	.178	.126	.089	.123	.088	.063	.071	.052	.037	.023	.017	.012	
7.0	.200	.139	.096	.172	.120	.084	.119	.084	.059	.069	.050	.035	.022	.016	.012	
8.0	.193	.133	.092	.166	.116	.080	.115	.081	.057	.067	.048	.034	.022	.016	.011	
9.0	.187	.128	.089	.161	.111	.077	.112	.078	.055	.065	.046	.033	.021	.015	.011	
10.0	.181	.124	.086	.156	.108	.075	.108	.076	.053	.063	.045	.032	.020	.015	.011	

C Range: 0 - 360DEG

C Interval: 90.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:Testing Room

Test Date:2025-11-20

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471

Humidity:65.0%

Test Distance:11.050m [K=1.0000]

Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.15V I:0.1128A P:25.000W PF:0.9628 Freq:49.99Hz Lamp Flux:4000x1 lm										
NAME: 0028920277 3000K 25W 4000lm					TYPE:			WEIGHT:		
SPEC.:					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	17.2	18.7	17.6	19.0	19.4	15.9	17.3	16.2	17.7	18.0
3H	19.4	20.7	19.8	21.1	21.5	17.2	18.6	17.6	19.0	19.4
4H	20.5	21.8	20.9	22.2	22.6	17.8	19.0	18.2	19.4	19.9
6H	21.7	22.9	22.2	23.4	23.8	18.1	19.3	18.6	19.7	20.2
8H	22.4	23.6	22.9	24.0	24.5	18.2	19.4	18.7	19.8	20.3
12H	23.2	24.3	23.7	24.8	25.2	18.3	19.4	18.7	19.8	20.3
4H 2H	17.7	19.0	18.1	19.4	19.8	16.7	18.0	17.1	18.4	18.8
3H	20.1	21.2	20.5	21.6	22.1	18.3	19.4	18.8	19.9	20.3
4H	21.4	22.4	21.9	22.9	23.4	19.0	20.0	19.5	20.5	21.0
6H	22.8	23.7	23.3	24.2	24.8	19.5	20.4	20.0	20.9	21.5
8H	23.6	24.4	24.1	25.0	25.5	19.7	20.6	20.2	21.1	21.6
12H	24.5	25.3	25.1	25.8	26.4	19.8	20.6	20.4	21.1	21.7
8H 4H	21.6	22.5	22.2	23.0	23.6	19.6	20.5	20.1	21.0	21.5
6H	23.3	24.0	23.8	24.5	25.1	20.4	21.1	21.0	21.7	22.3
8H	24.2	24.9	24.8	25.5	26.1	20.7	21.4	21.3	21.9	22.6
12H	25.4	26.0	26.0	26.5	27.2	21.0	21.5	21.6	22.1	22.8
12H 4H	21.6	22.4	22.2	23.0	23.5	19.8	20.6	20.3	21.1	21.7
6H	23.4	24.0	23.9	24.6	25.2	20.7	21.3	21.3	21.9	22.5
8H	24.4	25.0	25.0	25.5	26.2	21.1	21.7	21.7	22.3	22.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117, 4000 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.8$)
Area: 0.308 m²

C Range: 0 - 360DEG

C Interval: 90.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:Testing Room

Test Date:2025-11-20

 γ Range: 0 - 180DEG γ Interval: 1.0DEG

Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471

Humidity:65.0%

Test Distance:11.050m [K=1.0000]

Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.15V I:0.1128A P:25.000W PF:0.9628 Freq:49.99Hz Lamp Flux:4000x1 lm		
NAME: 0028920277 3000K 25W 4000lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

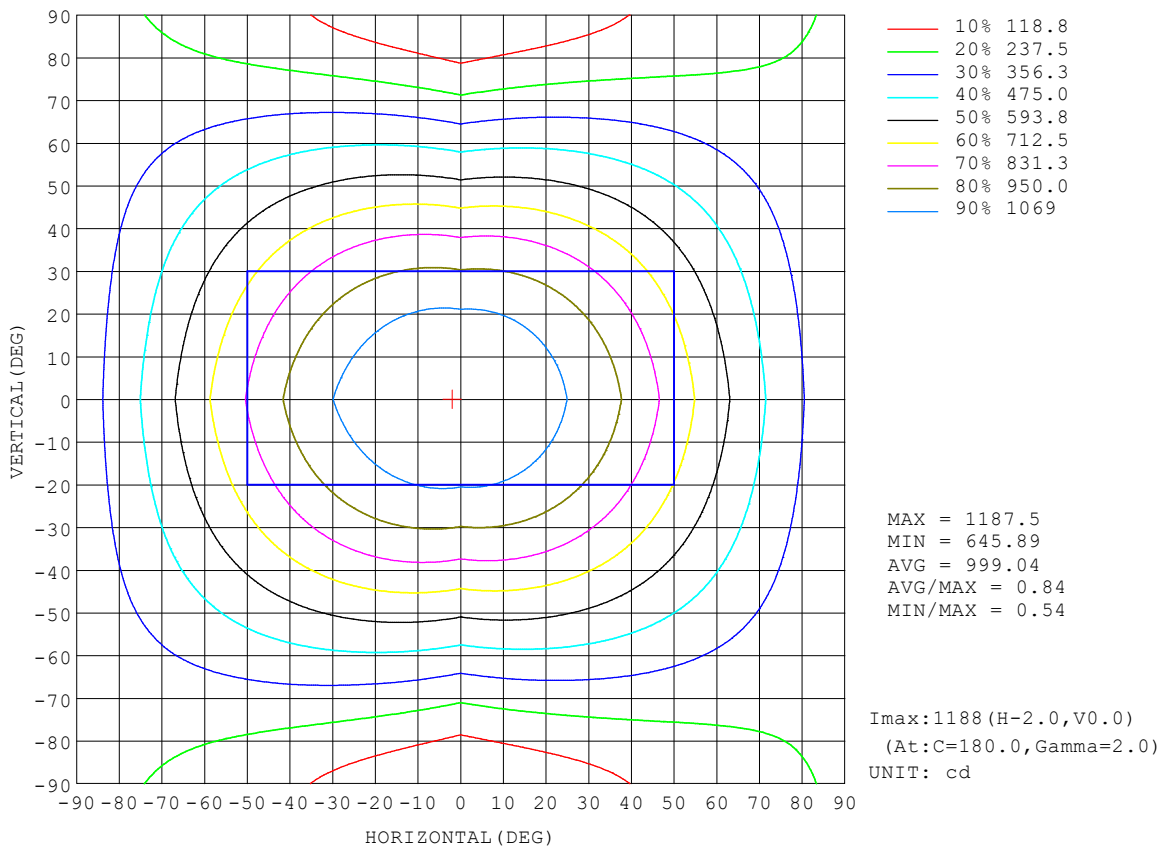
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	45	37	57	44	36	53	42	35	27
0.80	68	55	46	66	54	46	61	51	44	35
1.00	76	64	55	73	62	54	68	59	52	42
1.25	82	71	63	80	69	61	74	66	59	48
1.50	87	76	68	84	74	67	78	70	64	53
2.00	93	84	77	90	82	75	84	77	72	60
2.50	97	89	82	94	86	80	88	82	76	64
3.00	100	93	87	97	90	85	90	85	81	68
4.00	104	98	93	100	95	90	94	90	86	73
5.00	106	101	97	103	98	94	96	92	89	76
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Ceiling Mounted					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: Testing Room
 Test Date: 2025-11-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.471
 Humidity: 65.0%
 Test Distance: 11.050m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.15V I:0.1128A P:25.000W PF:0.9628 Freq:49.99Hz Lamp Flux:4000x1 lm		
NAME: 0028920277 3000K 25W 4000lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

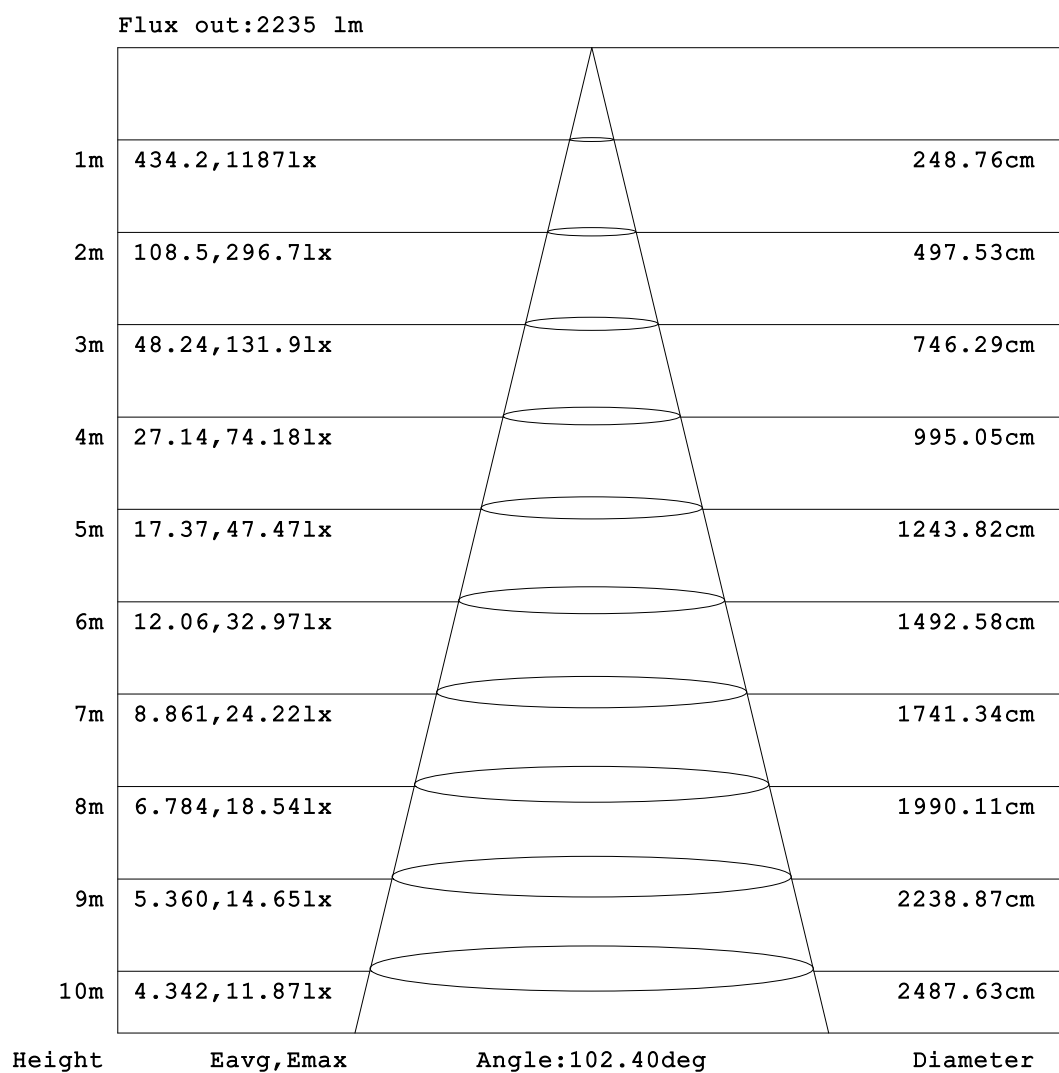


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Testing Room
Test Date:2025-11-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:11.050m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.15V I:0.1128A P:25.000W PF:0.9628 Freq:49.99Hz Lamp Flux:4000x1 lm		
NAME: 0028920277 3000K 25W 4000lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
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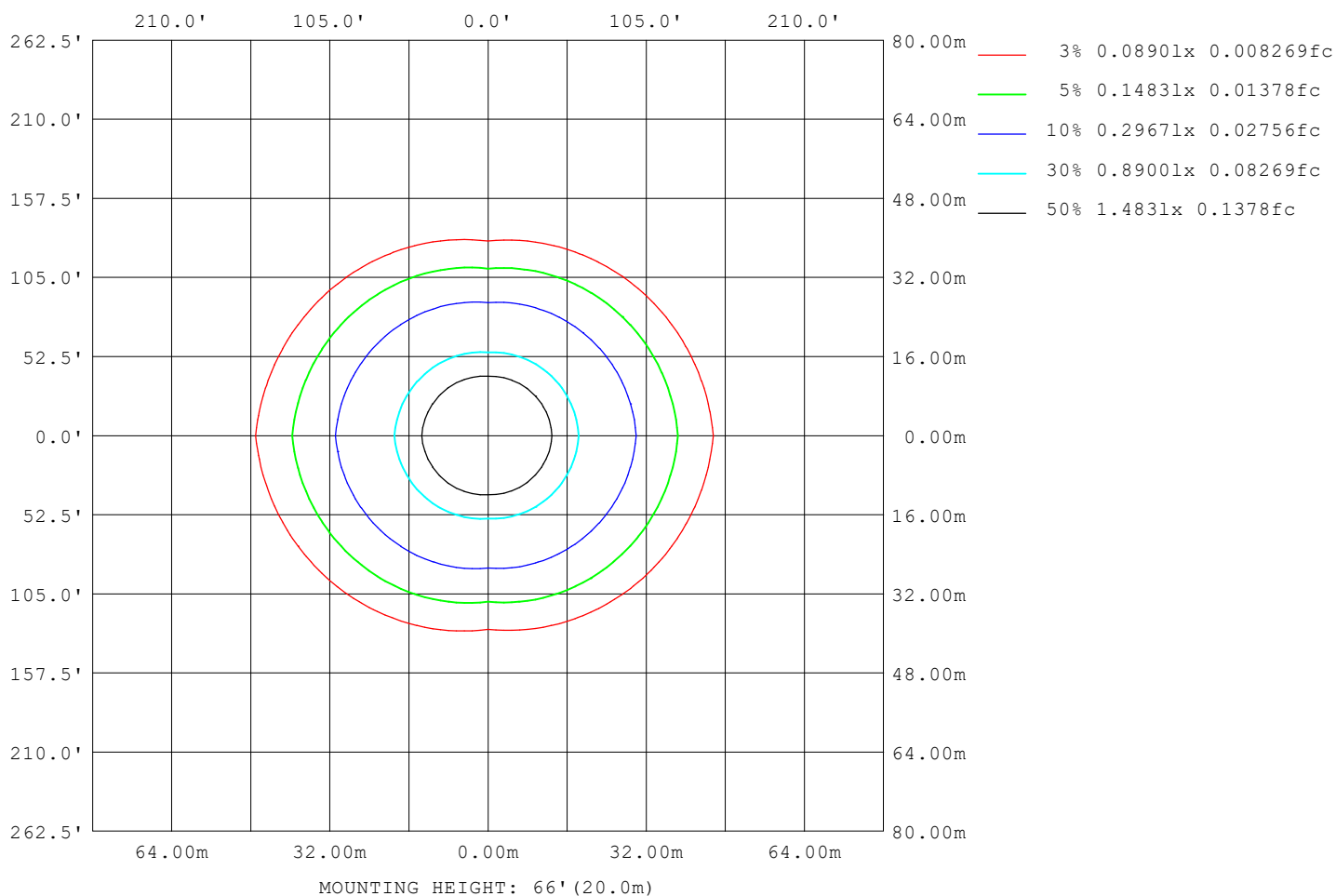
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Testing Room
Test Date:2025-11-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:11.050m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:230.15V I:0.1128A P:25.000W PF:0.9628 Freq:49.99Hz Lamp Flux:4000x1 lm		
NAME: 0028920277 3000K 25W 4000lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:Testing Room
Test Date:2025-11-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:11.050m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:230.15V I:0.1128A P:25.000W PF:0.9628 Freq:49.99Hz Lamp Flux:4000x1 lm		
NAME: 0028920277 3000K 25W 4000lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

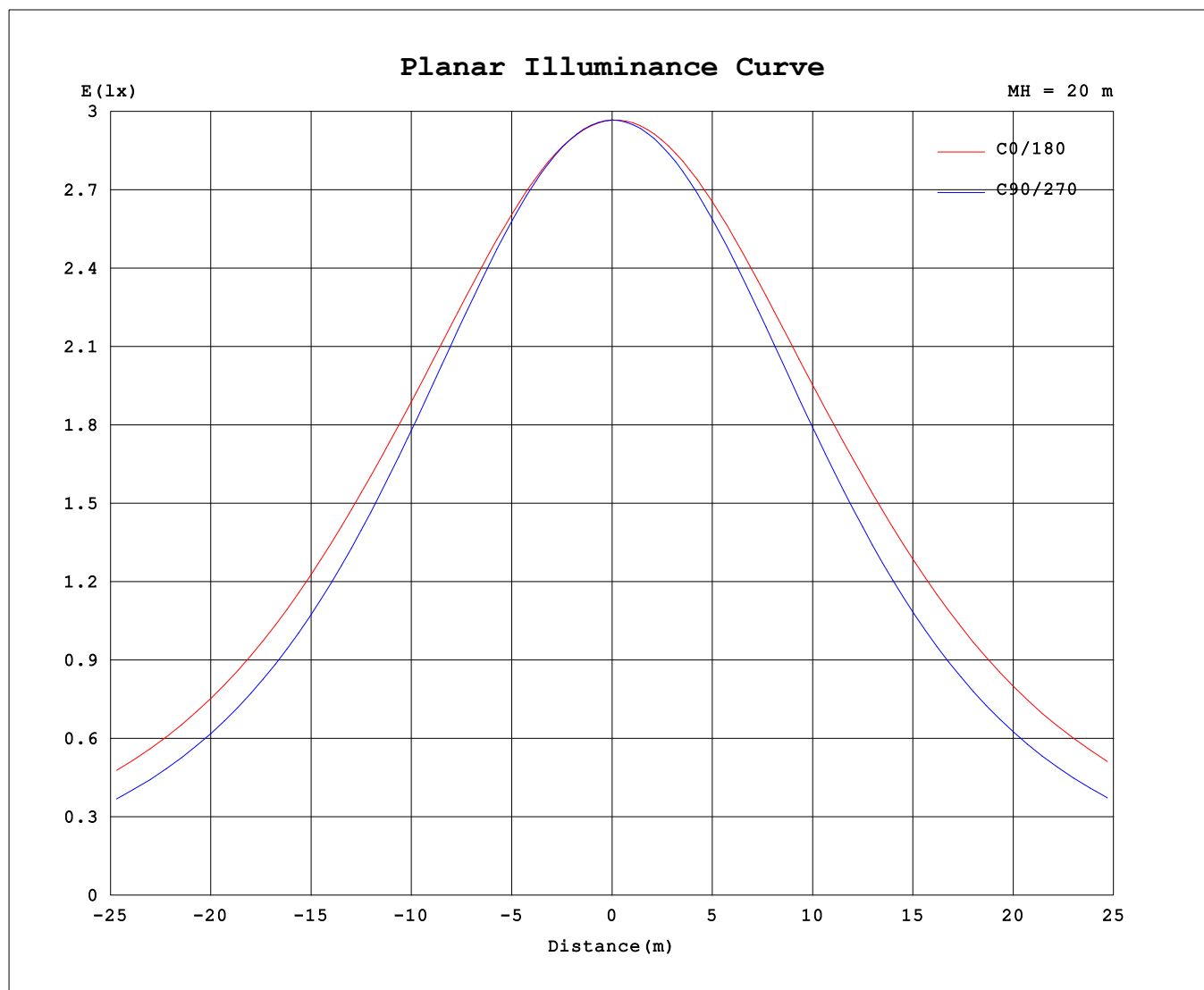
AvgL	cd/m2
L_0~180 (65) av	4561
L_0~180 (75) av	5665
L_0~180 (85) av	12032
L_90~270 (65) av	2642
L_90~270 (75) av	2183
L_90~270 (85) av	1490
L_45 (65) av	3375
L_45 (75) av	3508
L_45 (85) av	5487

Standard: GB/T 29293-2012

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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:11.050m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Testing Room
Test Date: 2025-11-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.471
Humidity: 65.0%
Test Distance: 11.050m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.15V I:0.1128A P:25.000W PF:0.9628 Freq:49.99Hz Lamp Flux:4000x1 lm		
NAME: 0028920277 3000K 25W 4000lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270														
0	1187	1187	1187	1187														
5	1178	1179	1186	1180														
10	1162	1157	1177	1160														
15	1136	1122	1159	1126														
20	1105	1074	1134	1080														
25	1068	1016	1103	1022														
30	1029	947	1068	954														
35	981	870	1025	878														
40	920	788	970	795														
45	853	701	906	708														
50	782	612	838	619														
55	710	521	767	528														
60	638	430	694	437														
65	566	341	621	347														
70	496	255	548	259														
75	427	173	476	175														
80	363	98.8	407	100.0														
85	304	39.7	342	40.3														
90	256	11.0	286	11.7														
95	215	8.67	241	9.30														
100	178	6.76	200	6.71														
105	147	4.39	164	4.55														
110	118	4.81	133	4.60														
115	93.7	5.34	105	4.85														
120	70.9	5.94	80.1	5.34														
125	50.6	6.57	58.4	5.90														
130	32.8	7.18	39.1	6.46														
135	18.6	7.75	23.0	7.04														
140	12.6	8.30	12.5	7.62														
145	12.1	8.83	12.1	8.18														
150	11.8	9.35	11.7	8.78														
155	11.5	9.79	11.4	9.36														
160	11.2	10.2	11.2	9.89														
165	11.2	10.5	11.0	10.4														
170	11.0	10.9	10.6	10.7														
175	10.9	11.1	10.6	11.0														
180	11.0	11.3	10.9	11.2														

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:Testing Room
 Test Date:2025-11-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:11.050m [K=1.0000]
 Remarks: