

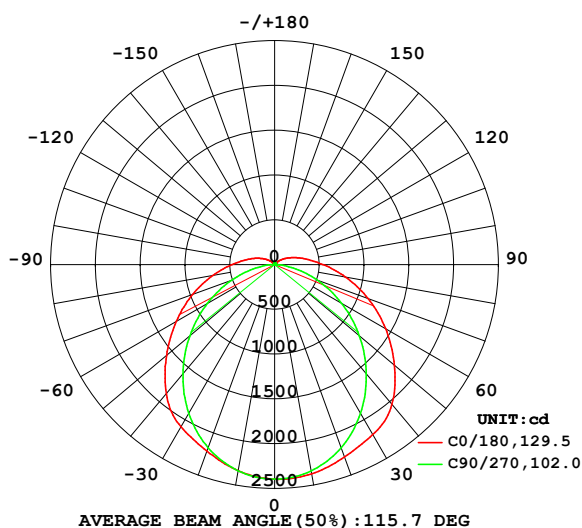


LUMINAIRE PHOTOMETRIC TEST REPORT

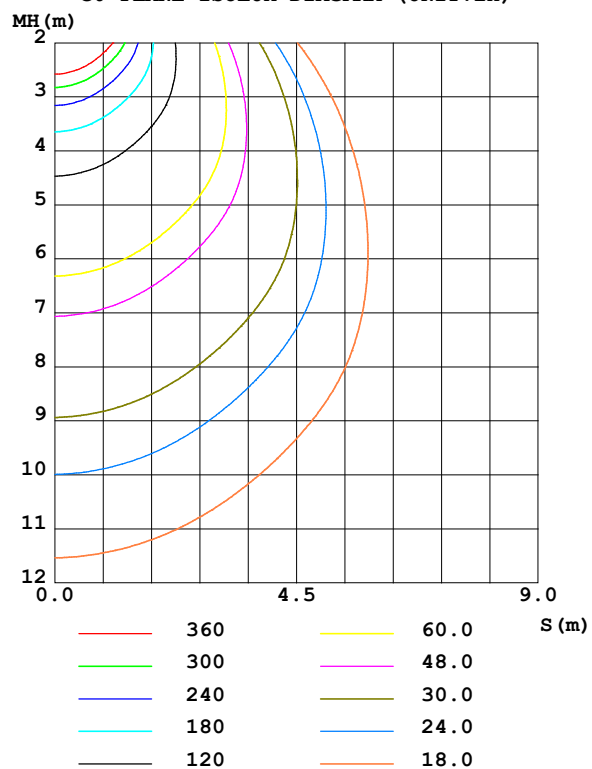
Test:U:230.00V I:0.2263A P:50.000W PF:0.9631 Freq:49.99Hz Lamp Flux:8000.03x1 lm		
NAME: 0028920278 4000K 50W 8000lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 160.00 lm/W			
MODEL		I _{max} (cd)	2398	S/MH(C0/180)	1.38
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.20
RATED VOLTAGE(V)		TOTAL FLUX(lm)	8000.0	η UP,DN(C0-180)	3.5,45.1
NOMINAL FLUX(lm)	8000.03	CIE CLASS	DIRECT	η UP,DN(C180-360)	3.8,47.6
LAMPS INSIDE	1	η up (%)	7.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)		η down (%)	92.7	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℃
Operators:Testing Room
Test Date:2025-11-21

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	2338	2339	2373	2339					0- 10	226.4	226.4	2.83,2.83
20	2215	2174	2285	2175					10- 20	645.9	872.3	10.9,10.9
30	2093	1918	2193	1918					20- 30	980.7	1853	23.2,23.2
40	1883	1594	2039	1594					30- 40	1198	3051	38.1,38.1
50	1575	1234	1747	1234					40- 50	1247	4299	53.7,53.7
60	1267	866.4	1431	865.1					50- 60	1143	5442	68,68
70	974.2	509.2	1111	507.6					60- 70	931.2	6373	79.7,79.7
80	700.1	192.0	804.3	189.6					70- 80	654.2	7027	87.8,87.8
90	475.9	18.95	542.3	19.35					80- 90	385.7	7413	92.7,92.7
100	323.1	13.39	361.6	13.62					90-100	238.3	7651	95.6,95.6
110	211.9	9.715	234.8	9.660					100-110	153.9	7805	97.6,97.6
120	127.7	11.72	140.7	11.27					110-120	93.23	7898	98.7,98.7
130	62.29	13.97	69.51	13.52					120-130	50.22	7948	99.4,99.4
140	23.13	16.18	23.39	15.85					130-140	21.83	7970	99.6,99.6
150	22.33	18.12	22.18	17.91					140-150	12.44	7983	99.8,99.8
160	21.85	19.69	21.78	19.58					150-160	9.459	7992	99.9,99.9
170	21.39	20.85	21.24	20.56					160-170	5.918	7998	100,100
180	21.20	21.40	21.22	21.32					170-180	2.013	8000	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 3679.8 lm

%lum = 46.0%

%lamp = 46.0%

Conical surface Flux(120deg): 5441.6 lm

%lum = 68.0%

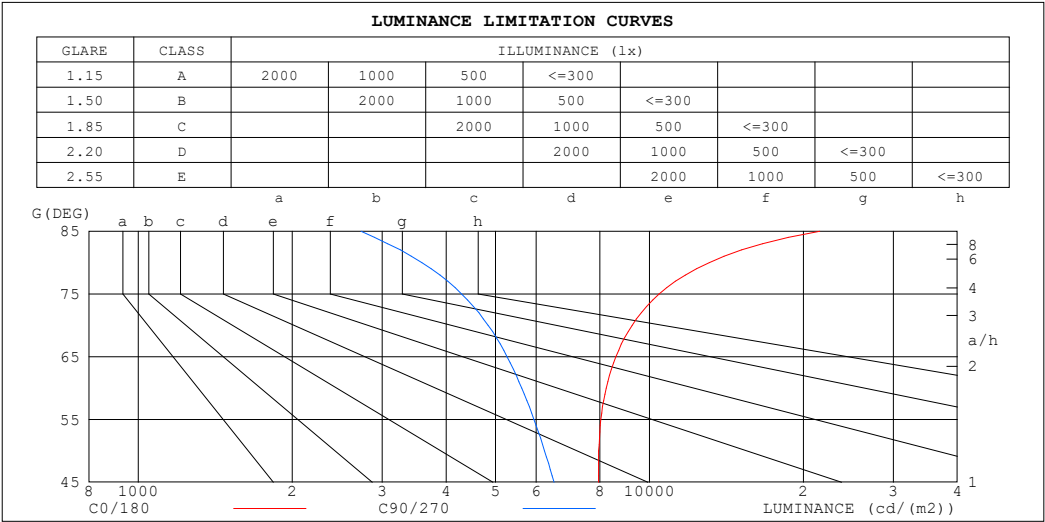
%lamp = 68.0%

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:Testing Room
 Test Date:2025-11-21

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:230.00V I:0.2263A P:50.000W PF:0.9631 Freq:49.99Hz Lamp Flux:8000.03x1 lm		
NAME: 0028920278 3000K 50W 8000lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	21533	2729
80	13092	3589
75	10447	4290
70	9249	4834
65	8596	5265
60	8229	5626
55	8028	5943
50	7955	6233
45	7952	6504

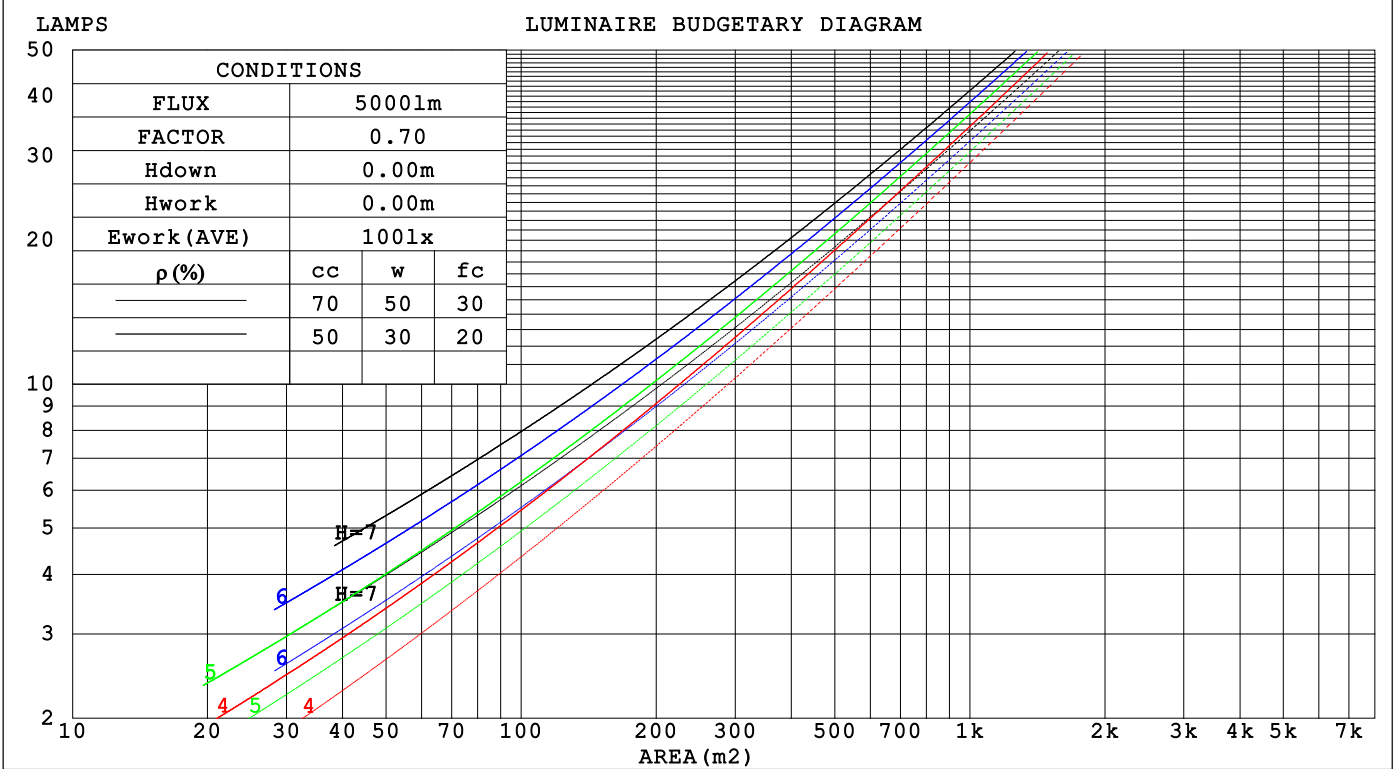
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Testing Room
Test Date:2025-11-21

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:230.00V I:0.2263A P:50.000W PF:0.9631 Freq:49.99Hz		
Lamp Flux:8000.03x1 lm		
NAME: 0028920278 3000K 50W 8000lm	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	1.14	1.14	1.14	1.07	1.07	1.07	1.01	1.01	1.01	.95	.95	.95	.93
1.0	1.00	.95	.91	.97	.93	.89	.91	.88	.85	.86	.83	.81	.82	.79	.77	.74
2.0	.87	.79	.73	.84	.77	.72	.79	.74	.69	.75	.70	.66	.71	.67	.64	.61
3.0	.76	.67	.60	.74	.66	.59	.69	.63	.57	.66	.60	.55	.62	.57	.53	.51
4.0	.67	.58	.51	.65	.56	.50	.61	.54	.48	.58	.52	.47	.55	.50	.46	.43
5.0	.60	.50	.43	.58	.49	.43	.55	.47	.42	.52	.46	.41	.50	.44	.39	.37
6.0	.54	.44	.38	.52	.44	.37	.50	.42	.36	.47	.41	.35	.45	.39	.35	.32
7.0	.48	.40	.33	.47	.39	.33	.45	.38	.32	.43	.36	.31	.41	.35	.31	.29
8.0	.44	.35	.30	.43	.35	.29	.41	.34	.29	.39	.33	.28	.38	.32	.27	.25
9.0	.40	.32	.27	.40	.32	.26	.38	.31	.26	.36	.30	.25	.35	.29	.25	.23
10.0	.37	.29	.24	.36	.29	.24	.35	.28	.23	.34	.27	.23	.32	.27	.22	.21



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Testing Room
Test Date:2025-11-21

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:230.00V I:0.2263A P:50.000W PF:0.9631 Freq:49.99Hz Lamp Flux:8000.03x1 lm					
NAME: 0028920278 3000K 50W 8000lm			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	.347	.197	.063	.338	.193	.061	.320	.184	.059	.304	.175	.056	.289	.167	.054		
2.0	.312	.171	.052	.303	.167	.051	.288	.160	.050	.273	.153	.048	.260	.147	.046		
3.0	.282	.150	.045	.275	.147	.044	.261	.141	.043	.248	.136	.042	.236	.130	.040		
4.0	.257	.134	.039	.250	.131	.039	.238	.126	.038	.226	.121	.037	.215	.117	.036		
5.0	.236	.120	.035	.230	.118	.034	.218	.114	.033	.208	.110	.033	.198	.106	.032		
6.0	.217	.109	.031	.212	.107	.031	.202	.103	.030	.192	.100	.029	.183	.096	.029		
7.0	.201	.100	.028	.197	.098	.028	.187	.095	.027	.179	.092	.027	.170	.089	.026		
8.0	.188	.092	.026	.183	.090	.025	.175	.087	.025	.167	.084	.024	.159	.082	.024		
9.0	.175	.085	.024	.171	.083	.023	.164	.081	.023	.156	.078	.022	.149	.076	.022		
10.0	.164	.079	.022	.161	.078	.022	.154	.075	.021	.147	.073	.021	.141	.071	.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	.246	.246	.246	.211	.211	.211	.144	.144	.144	.083	.083	.083	.026	.026	.026	
1.0	.239	.212	.188	.205	.182	.162	.140	.125	.112	.081	.073	.065	.026	.023	.021	
2.0	.232	.189	.152	.198	.162	.132	.136	.112	.092	.078	.065	.054	.025	.021	.018	
3.0	.224	.171	.130	.192	.148	.112	.132	.103	.079	.076	.060	.046	.024	.019	.015	
4.0	.216	.158	.114	.185	.137	.099	.128	.095	.070	.074	.056	.041	.024	.018	.014	
5.0	.209	.148	.104	.179	.128	.090	.123	.090	.064	.071	.053	.038	.023	.017	.012	
6.0	.201	.140	.096	.173	.121	.084	.119	.085	.059	.069	.050	.035	.022	.016	.012	
7.0	.194	.133	.091	.167	.116	.079	.115	.081	.056	.067	.048	.033	.022	.016	.011	
8.0	.188	.128	.086	.162	.111	.075	.112	.078	.053	.065	.046	.032	.021	.015	.011	
9.0	.181	.123	.083	.156	.107	.072	.108	.075	.051	.063	.044	.031	.020	.015	.010	
10.0	.176	.119	.080	.151	.103	.070	.105	.072	.050	.061	.043	.030	.020	.014	.010	

C Range: 0 - 360DEG

C Interval: 90.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:Testing Room

Test Date:2025-11-21

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:230.00V I:0.2263A P:50.000W PF:0.9631 Freq:49.99Hz Lamp Flux:8000.03x1 lm										
NAME: 0028920278 3000K 50W 8000lm					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	19.6	21.1	20.0	21.4	21.8	18.3	19.8	18.7	20.1	20.5
3H	21.7	23.1	22.1	23.5	23.9	19.7	21.0	20.1	21.4	21.8
4H	22.9	24.1	23.3	24.5	24.9	20.2	21.5	20.6	21.9	22.3
6H	24.0	25.3	24.5	25.7	26.1	20.5	21.7	21.0	22.1	22.6
8H	24.7	25.9	25.1	26.3	26.7	20.6	21.8	21.1	22.2	22.6
12H	25.4	26.6	25.9	27.0	27.4	20.6	21.8	21.1	22.2	22.7
4H 2H	20.1	21.4	20.6	21.8	22.2	19.1	20.4	19.6	20.8	21.2
3H	22.4	23.6	22.9	24.0	24.5	20.7	21.9	21.2	22.3	22.7
4H	23.7	24.7	24.2	25.2	25.7	21.4	22.4	21.9	22.9	23.4
6H	25.1	26.0	25.6	26.5	27.0	21.9	22.8	22.4	23.3	23.8
8H	25.9	26.7	26.4	27.2	27.8	22.1	22.9	22.6	23.4	24.0
12H	26.7	27.5	27.3	28.0	28.6	22.2	22.9	22.7	23.5	24.0
8H 4H	24.0	24.8	24.5	25.3	25.9	22.0	22.9	22.5	23.4	23.9
6H	25.6	26.3	26.1	26.8	27.4	22.8	23.5	23.3	24.0	24.6
8H	26.5	27.1	27.1	27.7	28.3	23.1	23.7	23.6	24.3	24.9
12H	27.6	28.2	28.2	28.7	29.4	23.3	23.9	23.9	24.4	25.1
12H 4H	24.0	24.8	24.5	25.3	25.8	22.1	22.9	22.7	23.5	24.0
6H	25.6	26.3	26.2	26.8	27.4	23.0	23.7	23.6	24.2	24.8
8H	26.6	27.2	27.2	27.8	28.4	23.4	24.0	24.0	24.6	25.2
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, 8000 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 7.2$)
Area: 0.308 m²

C Range: 0 - 360DEG

C Interval: 90.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:Testing Room

Test Date:2025-11-21

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:230.00V I:0.2263A P:50.000W PF:0.9631 Freq:49.99Hz Lamp Flux:8000.03x1 lm		
NAME: 0028920278 3000K 50W 8000lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

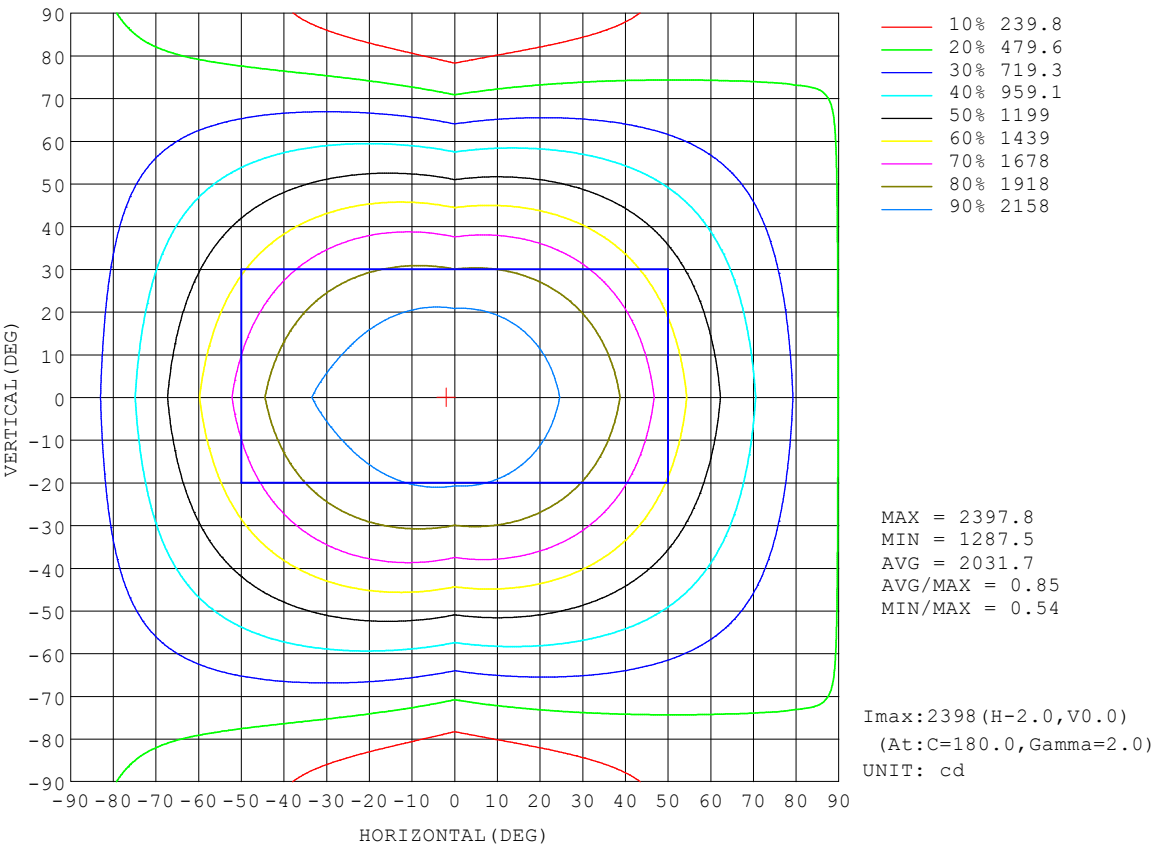
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	45	37	57	44	37	53	43	36	28
0.80	68	55	47	66	54	46	62	52	44	35
1.00	76	64	55	74	62	54	69	59	52	43
1.25	83	71	63	80	70	62	75	66	60	49
1.50	87	77	69	84	75	67	79	71	65	54
2.00	94	85	77	91	82	76	85	78	73	61
2.50	97	89	83	94	87	81	88	82	77	65
3.00	101	93	87	97	91	85	91	86	81	69
4.00	104	98	93	101	96	91	94	90	86	73
5.00	107	102	97	103	99	95	97	93	90	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: 2025-11-21

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

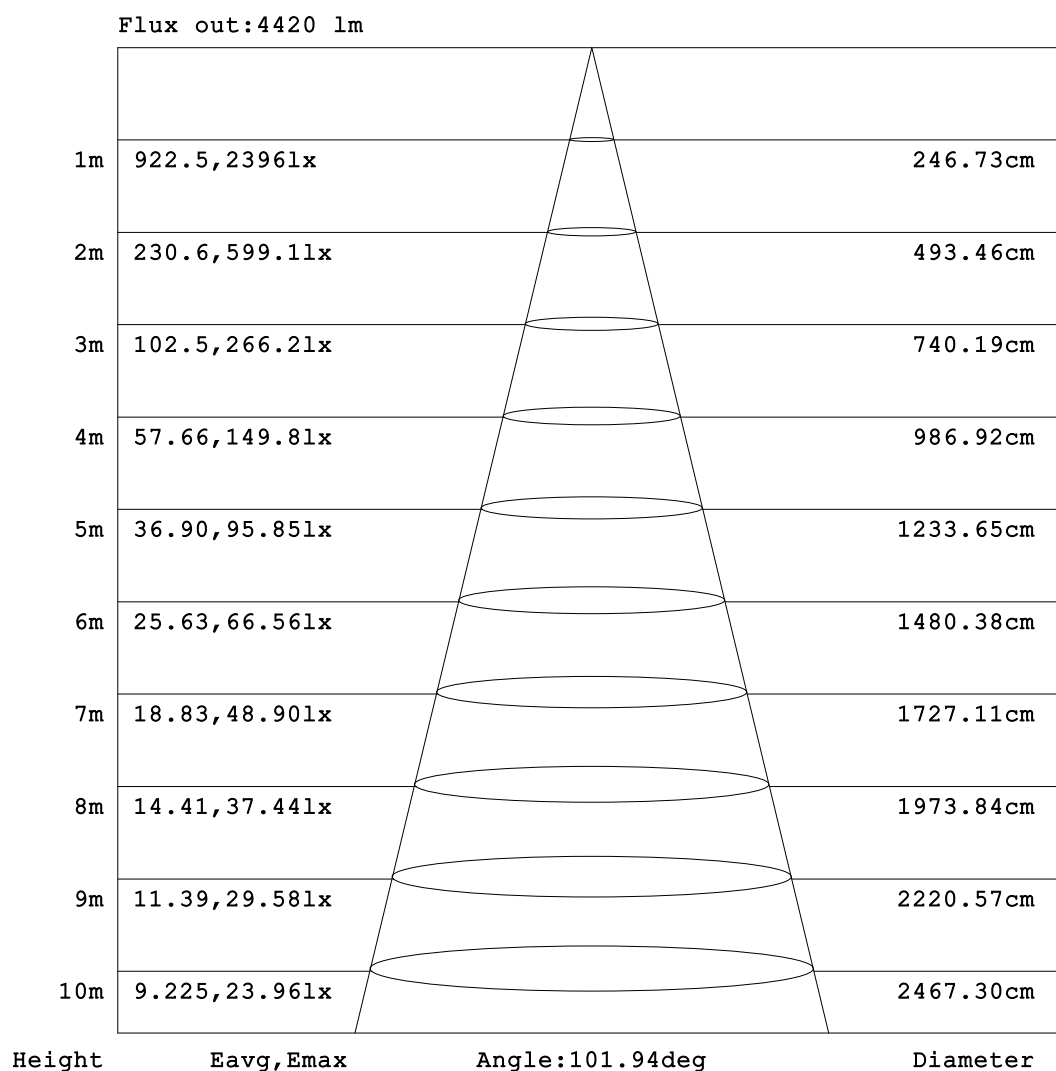
Test:U:230.00V I:0.2263A P:50.000W PF:0.9631 Freq:49.99Hz Lamp Flux:8000.03x1 lm		
NAME: 0028920278 3000K 50W 8000lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG	γ Range: 0 - 180DEG
C Interval: 90.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
Temperature:25.3℃	Humidity:65.0%
Operators:Testing Room	Test Distance:11.050m [K=1.0000]
Test Date:2025-11-21	Remarks:

AAI Figure

Test:U:230.00V I:0.2263A P:50.000W PF:0.9631 Freq:49.99Hz Lamp Flux:8000.03x1 lm		
NAME: 0028920278 3000K 50W 8000lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



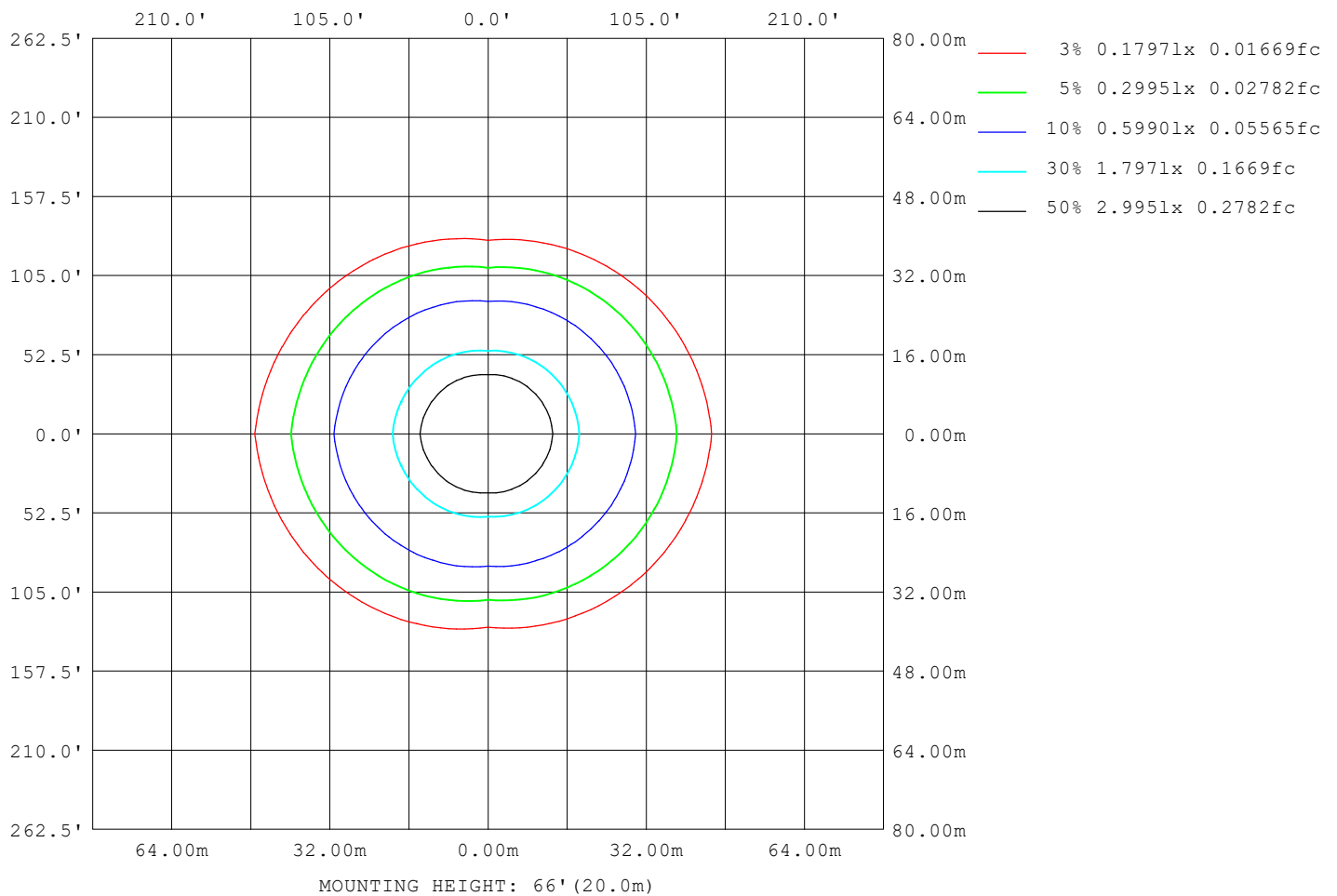
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Testing Room
Test Date:2025-11-21

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:230.00V I:0.2263A P:50.000W PF:0.9631 Freq:49.99Hz Lamp Flux:8000.03x1 lm		
NAME: 0028920278 3000K 50W 8000lm	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: 2025-11-21

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:230.00V I:0.2263A P:50.000W PF:0.9631 Freq:49.99Hz Lamp Flux:8000.03x1 lm		
NAME: 0028920278 3000K 50W 8000lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

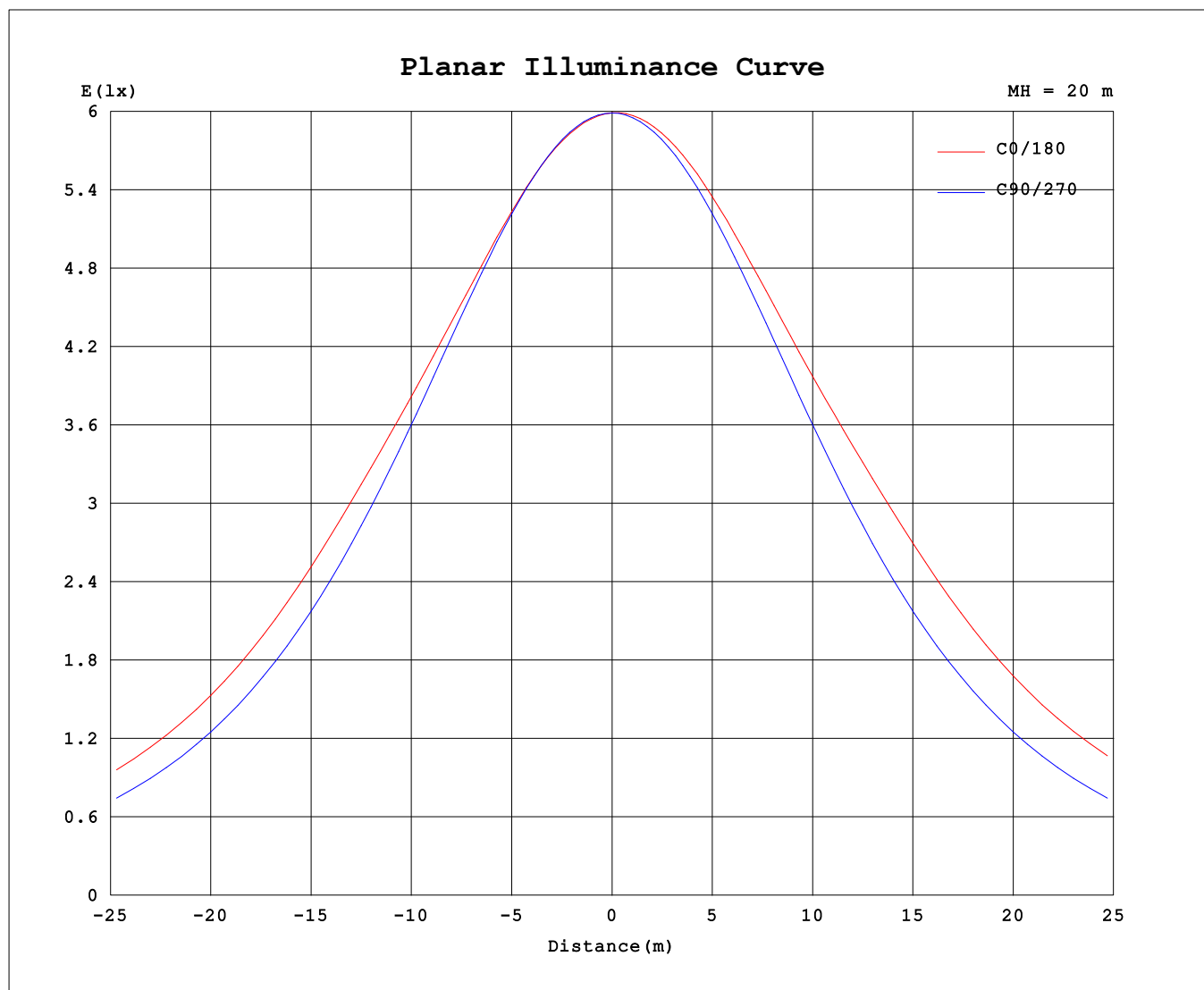
AvgL	cd/m2
L_0~180 (65) av	9182
L_0~180 (75) av	11213
L_0~180 (85) av	23120
L_90~270 (65) av	5259
L_90~270 (75) av	4278
L_90~270 (85) av	2701
L_45 (65) av	6767
L_45 (75) av	6927
L_45 (85) av	10458

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
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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: 2025-11-21

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:230.00V I:0.2263A P:50.000W PF:0.9631 Freq:49.99Hz Lamp Flux:8000.03x1 lm		
NAME: 0028920278 3000K 50W 8000lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270														
0	2396	2396	2396	2396														
5	2377	2382	2394	2382														
10	2338	2339	2373	2339														
15	2281	2270	2334	2271														
20	2215	2174	2285	2175														
25	2153	2056	2236	2057														
30	2093	1918	2193	1918														
35	2009	1762	2138	1763														
40	1883	1594	2039	1594														
45	1732	1417	1901	1417														
50	1575	1234	1747	1234														
55	1418	1050	1591	1050														
60	1267	866	1431	865														
65	1119	685	1272	684														
70	974	509	1111	508														
75	833	342	955	340														
80	700	192	804	190														
85	578	73.3	663	71.7														
90	476	18.9	542	19.4														
95	393	15.8	443	16.1														
100	323	13.4	362	13.6														
105	263	11.7	291	11.0														
110	212	9.72	235	9.66														
115	167	10.6	184	10.3														
120	128	11.7	141	11.3														
125	93.0	12.8	103	12.4														
130	62.3	14.0	69.5	13.5														
135	37.0	15.1	42.0	14.7														
140	23.1	16.2	23.4	15.9														
145	22.6	17.2	22.5	16.9														
150	22.3	18.1	22.2	17.9														
155	22.1	19.0	22.0	18.8														
160	21.9	19.7	21.8	19.6														
165	21.7	20.3	21.4	20.1														
170	21.4	20.8	21.2	20.6														
175	21.3	21.3	21.0	21.0														
180	21.2	21.4	21.2	21.3														

C Range: 0 - 360DEG

C Interval: 90.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:Testing Room

Test Date:2025-11-21

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: