

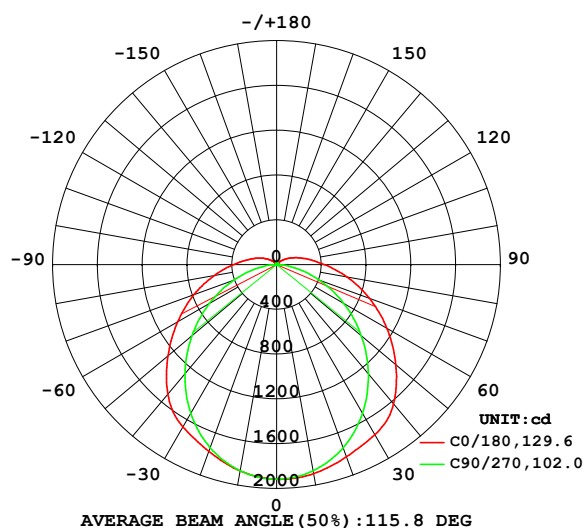


LUMINAIRE PHOTOMETRIC TEST REPORT

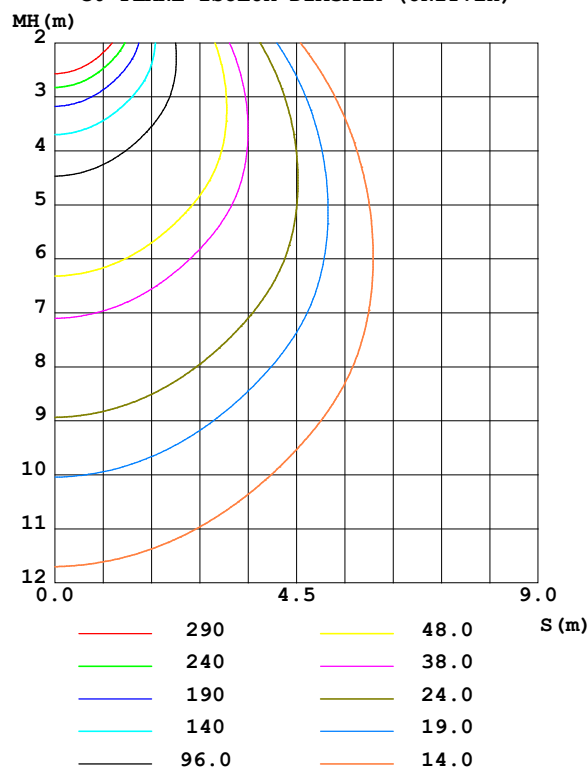
Test:U:230.00V I:0.1827A P:40.000W PF:0.9507 Freq:49.99Hz Lamp Flux:6400x1 lm		
NAME: 0028920278 3000K 40W 6400lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 160.00 lm/W			
MODEL		I _{max} (cd)	1918	S/MH(C0/180)	1.38
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.20
RATED VOLTAGE(V)		TOTAL FLUX(lm)	6400.0	η UP,DN(C0-180)	3.6,45.2
NOMINAL FLUX(lm)	6400	CIE CLASS	DIRECT	η UP,DN(C180-360)	3.8,47.4
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	1872	1871	1896	1871					0- 10	181.1	181.1	2.83,2.83
20	1774	1739	1826	1740					10- 20	516.6	697.7	10.9,10.9
30	1675	1534	1755	1534					20- 30	784.6	1482	23.2,23.2
40	1512	1275	1626	1276					30- 40	959.0	2441	38.1,38.1
50	1267	987.1	1391	988.1					40- 50	997.7	3439	53.7,53.7
60	1020	693.1	1138	692.7					50- 60	914.2	4353	68,68
70	785.1	406.5	883.0	406.4					60- 70	744.8	5098	79.7,79.7
80	565.1	153.4	636.8	152.0					70- 80	523.3	5621	87.8,87.8
90	385.3	15.02	427.4	15.63					80- 90	308.4	5930	92.7,92.7
100	262.5	10.63	285.6	11.04					90-100	190.6	6120	95.6,95.6
110	173.4	7.768	184.5	7.715					100-110	123.2	6244	97.6,97.6
120	105.4	9.368	109.3	9.012					110-120	74.65	6318	98.7,98.7
130	52.67	11.21	53.53	10.81					120-130	40.25	6359	99.4,99.4
140	18.67	12.95	18.64	12.64					130-140	17.56	6376	99.6,99.6
150	17.98	14.50	17.84	14.30					140-150	9.994	6386	99.8,99.8
160	17.56	15.76	17.50	15.62					150-160	7.586	6394	99.9,99.9
170	17.17	16.70	17.05	16.42					160-170	4.740	6398	100,100
180	16.99	17.11	17.01	17.04					170-180	1.613	6400	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2944 lm

%lum = 46.0%

%lamp = 46.0%

Conical surface Flux(120deg): 4353.2 lm

%lum = 68.0%

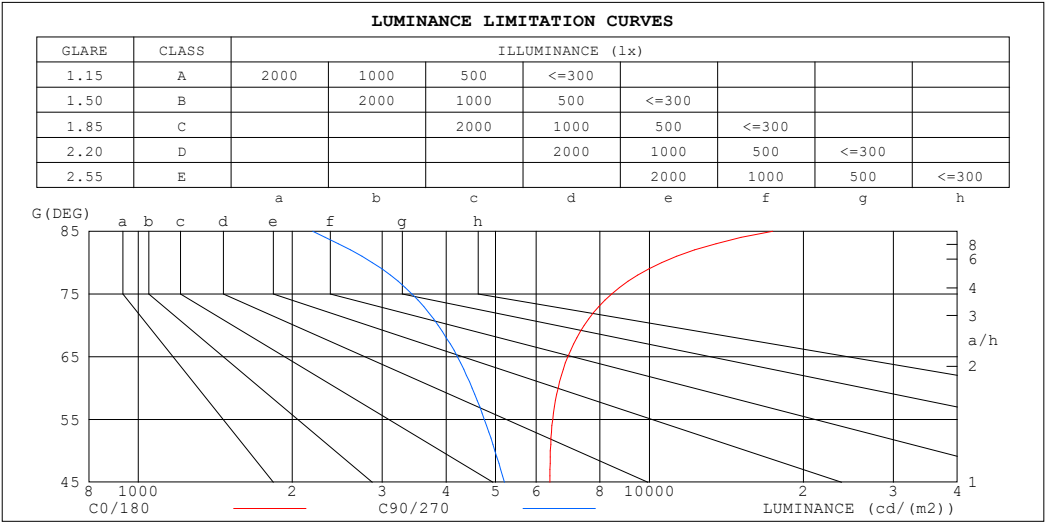
%lamp = 68.0%

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:0.1827A P:40.000W PF:0.9507 Freq:49.99Hz Lamp Flux:6400x1 lm		
NAME: 0028920278 3000K 40W 6400lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	17424	2193
80	10565	2869
75	8435	3429
70	7453	3859
65	6923	4212
60	6626	4501
55	6465	4752
50	6398	4986
45	6388	5201

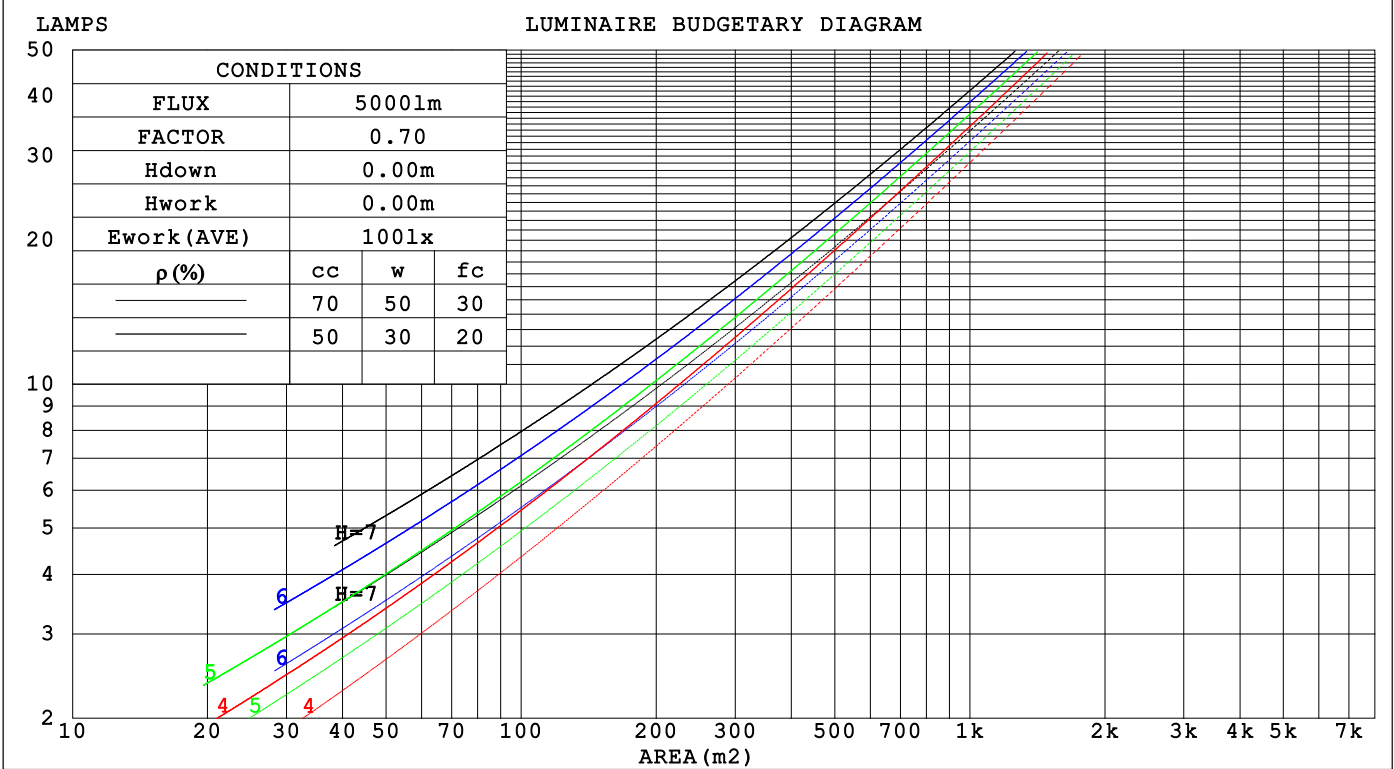
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Temperature:25.3℃
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Test Date:2025-11-21

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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:0.1827A P:40.000W PF:0.9507 Freq:49.99Hz		
Lamp Flux:6400x1 lm		
NAME: 0028920278 3000K 40W 6400lm	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
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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:

WEC AND CCEC

Test:U:230.00V I:0.1827A P:40.000W PF:0.9507 Freq:49.99Hz Lamp Flux:6400x1 lm		
NAME: 0028920278 3000K 40W 6400lm	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	.235	.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	.172	.130	.192	.148	.112	.132	.103	.079	.076	.060	.046	.024	.019	.015	
4.0	.216	.159	.115	.186	.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	.182	.123	.083	.156	.107	.073	.108	.075	.051	.063	.044	.031	.020	.015	.010	
10.0	.176	.119	.081	.152	.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:0.1827A P:40.000W PF:0.9507 Freq:49.99Hz Lamp Flux:6400x1 lm										
NAME: 0028920278 3000K 40W 6400lm					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	18.9	20.4	19.3	20.7	21.0	17.6	19.0	17.9	19.4	19.7
3H	21.0	22.4	21.4	22.7	23.1	18.9	20.3	19.3	20.6	21.0
4H	22.1	23.4	22.5	23.8	24.2	19.4	20.7	19.8	21.1	21.5
6H	23.3	24.5	23.8	24.9	25.4	19.8	21.0	20.2	21.4	21.8
8H	24.0	25.1	24.4	25.6	26.0	19.8	21.0	20.3	21.4	21.9
12H	24.7	25.8	25.2	26.3	26.7	19.9	21.0	20.3	21.4	21.9
4H 2H	19.4	20.7	19.8	21.1	21.5	18.4	19.7	18.8	20.0	20.5
3H	21.7	22.8	22.2	23.3	23.7	20.0	21.1	20.4	21.5	22.0
4H	23.0	24.0	23.5	24.5	25.0	20.6	21.7	21.1	22.1	22.6
6H	24.4	25.3	24.9	25.8	26.3	21.1	22.1	21.7	22.5	23.1
8H	25.1	26.0	25.7	26.5	27.0	21.3	22.2	21.8	22.7	23.2
12H	26.0	26.8	26.6	27.3	27.9	21.4	22.2	21.9	22.7	23.3
8H 4H	23.2	24.1	23.8	24.6	25.1	21.2	22.1	21.8	22.6	23.1
6H	24.8	25.6	25.4	26.1	26.7	22.0	22.7	22.6	23.3	23.8
8H	25.8	26.4	26.3	27.0	27.6	22.3	23.0	22.9	23.5	24.1
12H	26.9	27.5	27.5	28.0	28.7	22.5	23.1	23.1	23.7	24.3
12H 4H	23.2	24.0	23.8	24.5	25.1	21.4	22.2	21.9	22.7	23.3
6H	24.9	25.6	25.5	26.1	26.7	22.3	22.9	22.9	23.5	24.1
8H	25.9	26.5	26.5	27.1	27.7	22.7	23.3	23.3	23.8	24.5
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, 6400 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 6.4$)
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:0.1827A P:40.000W PF:0.9507 Freq:49.99Hz Lamp Flux:6400x1 lm		
NAME: 0028920278 3000K 40W 6400lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
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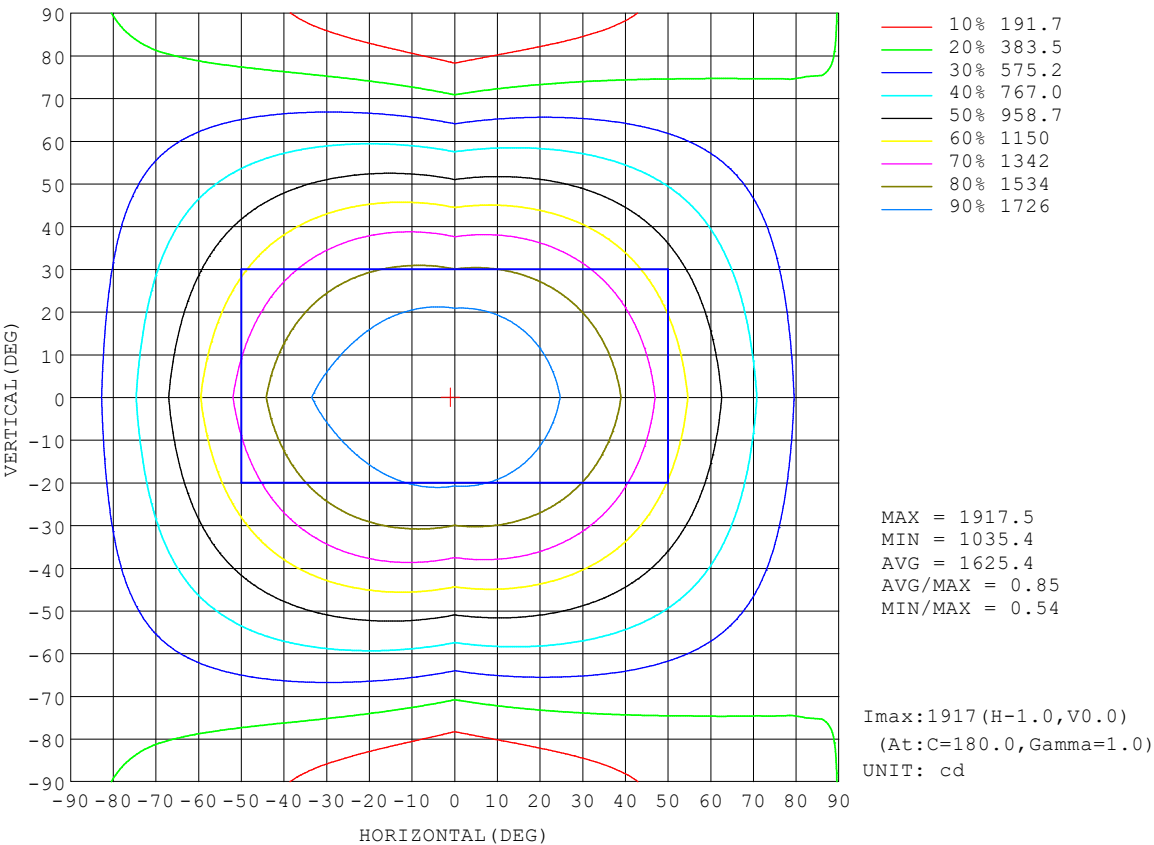
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	45	37	57	44	37	53	43	36	28
0.80	68	55	47	66	54	46	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
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 Operators: Testing Room
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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:

ISOCANDELA DIAGRAM

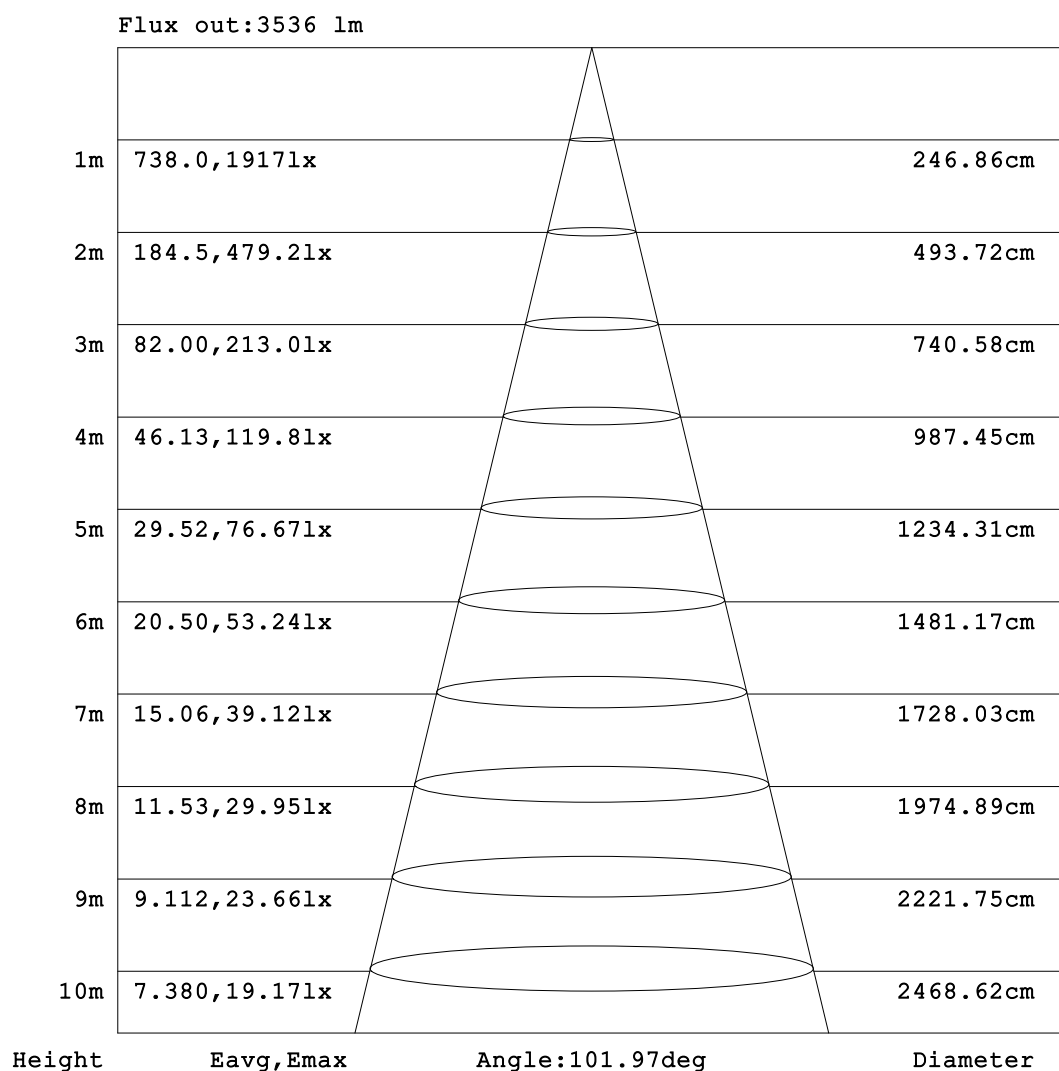
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NAME: 0028920278 3000K 40W 6400lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



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:0.1827A P:40.000W PF:0.9507 Freq:49.99Hz Lamp Flux:6400x1 lm		
NAME: 0028920278 3000K 40W 6400lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



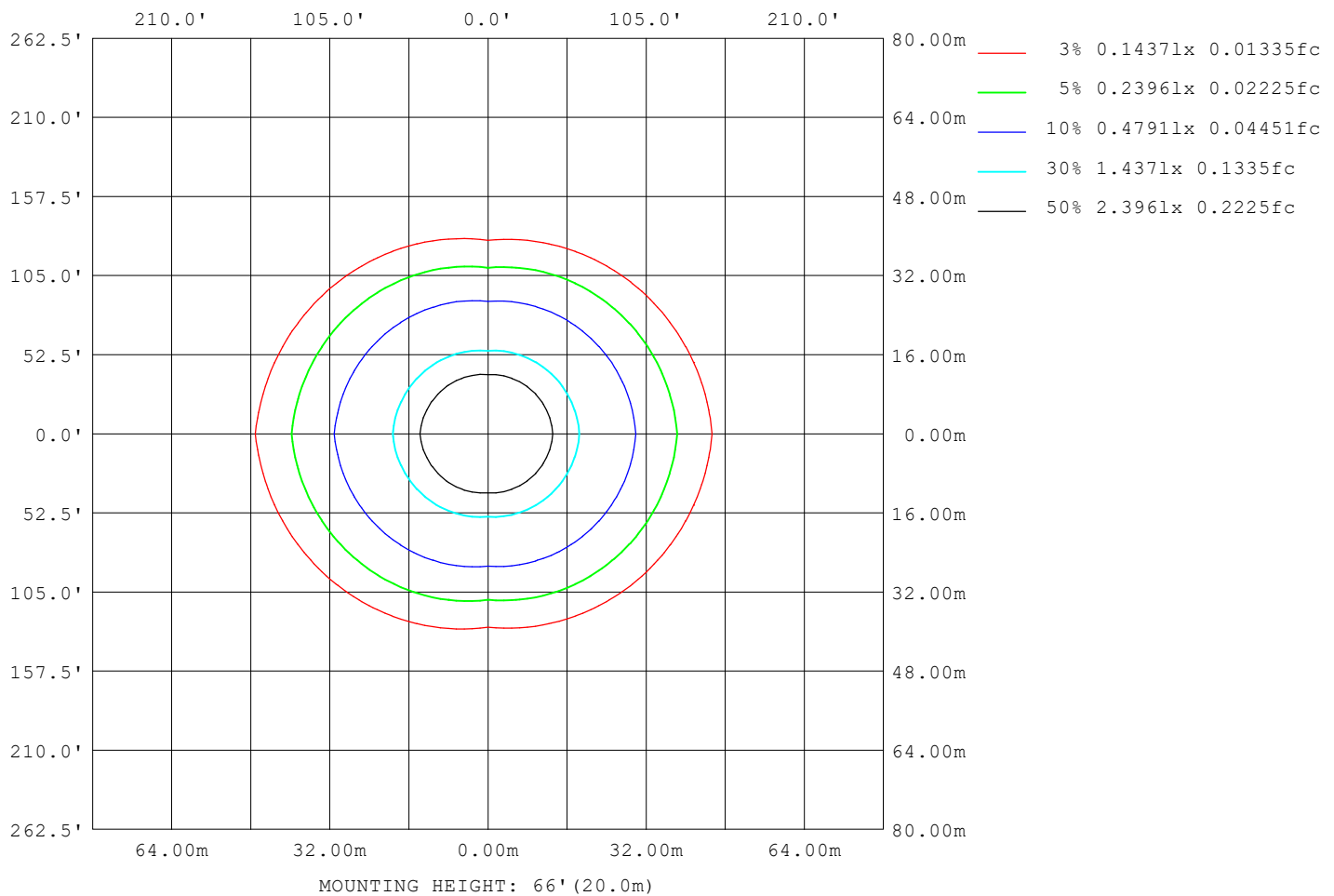
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1827A P:40.000W PF:0.9507 Freq:49.99Hz Lamp Flux:6400x1 lm		
NAME: 0028920278 3000K 40W 6400lm	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
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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:

LED Avg.L Report

Test:U:230.00V I:0.1827A P:40.000W PF:0.9507 Freq:49.99Hz Lamp Flux:6400x1 lm		
NAME: 0028920278 3000K 40W 6400lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
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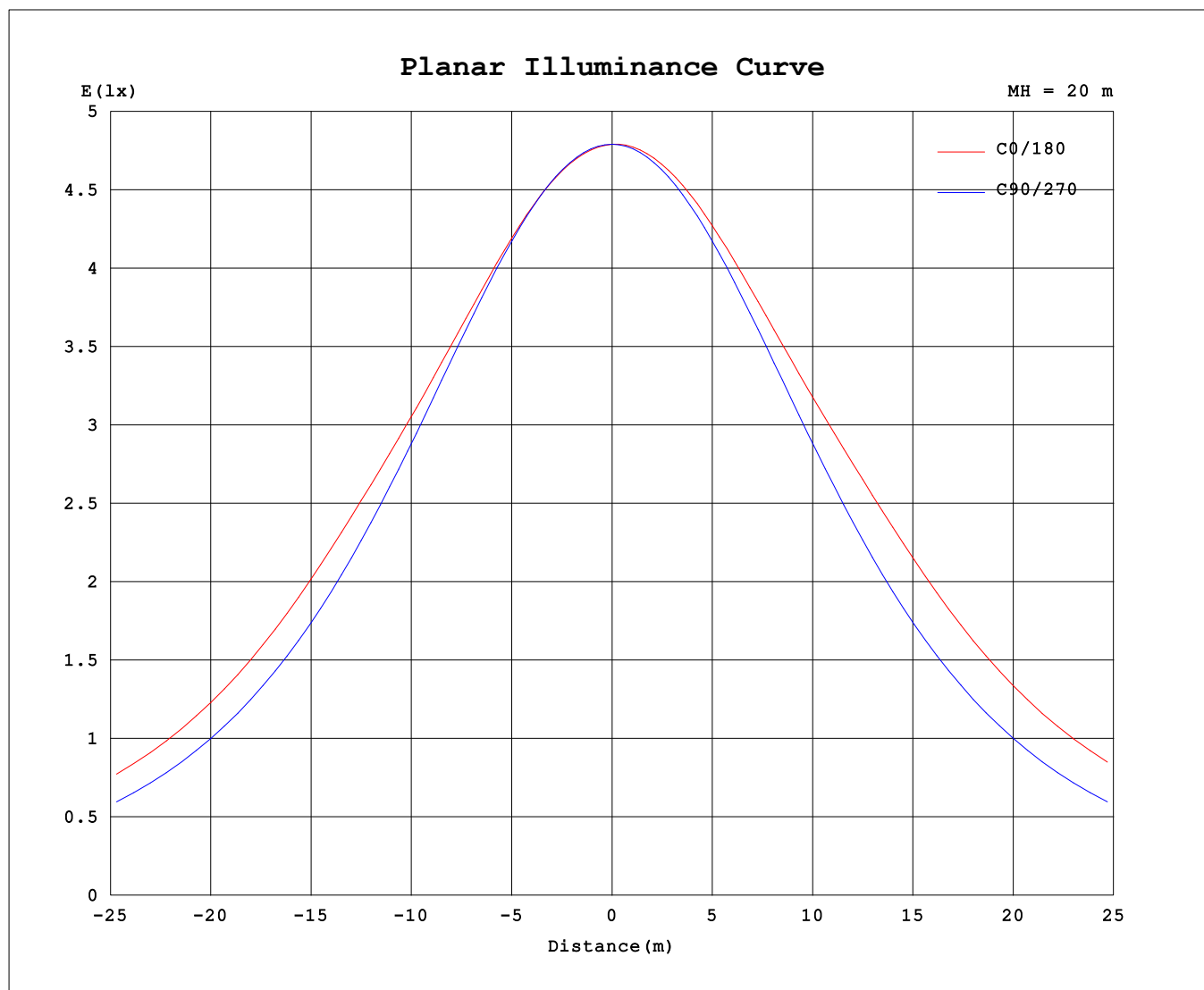
AvgL	cd/m2
L_0~180 (65) av	7342
L_0~180 (75) av	8971
L_0~180 (85) av	18500
L_90~270 (65) av	4208
L_90~270 (75) av	3425
L_90~270 (85) av	2172
L_45 (65) av	5410
L_45 (75) av	5538
L_45 (85) av	8362

Standard: GB/T 29293-2012

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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:0.1827A P:40.000W PF:0.9507 Freq:49.99Hz Lamp Flux:6400x1 lm		
NAME: 0028920278 3000K 40W 6400lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270														
0	1917	1917	1917	1917														
5	1902	1905	1914	1905														
10	1872	1871	1896	1871														
15	1827	1815	1865	1816														
20	1774	1739	1826	1740														
25	1723	1645	1788	1646														
30	1675	1534	1755	1534														
35	1611	1409	1709	1410														
40	1512	1275	1626	1276														
45	1391	1133	1514	1134														
50	1267	987	1391	988														
55	1142	839	1264	840														
60	1020	693	1138	693														
65	901	548	1010	547														
70	785	406	883	406														
75	672	273	758	273														
80	565	153	637	152														
85	468	58.9	525	57.7														
90	385	15.0	427	15.6														
95	318	12.5	350	13.0														
100	262	10.6	286	11.0														
105	214	9.34	230	8.84														
110	173	7.77	184	7.72														
115	137	8.51	144	8.26														
120	105	9.37	109	9.01														
125	77.4	10.3	79.3	9.90														
130	52.7	11.2	53.5	10.8														
135	31.8	12.1	32.1	11.7														
140	18.7	13.0	18.6	12.6														
145	18.2	13.8	18.1	13.5														
150	18.0	14.5	17.8	14.3														
155	17.8	15.2	17.7	15.0														
160	17.6	15.8	17.5	15.6														
165	17.4	16.2	17.2	16.1														
170	17.2	16.7	17.0	16.4														
175	17.0	17.0	16.9	16.8														
180	17.0	17.1	17.0	17.0														

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: