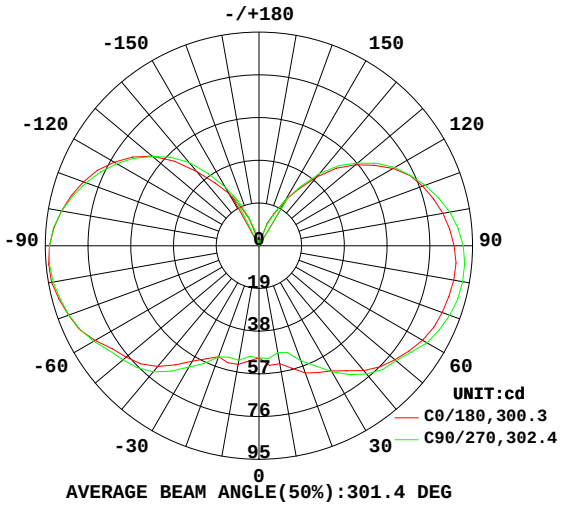
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.05V I:0.0392A P:6.6676W PF:0.7390 Freq:49.99Hz Lamp Flux:826.91x1 lm		
NAME: 0019590107	TYPE:	WEIGHT:
SPEC.: 0019590107 3713201 7W 2200-2700K 806lm	DIM.:	SERIAL No.:1
MFR.: /	SUR.:	Shielding Angle:

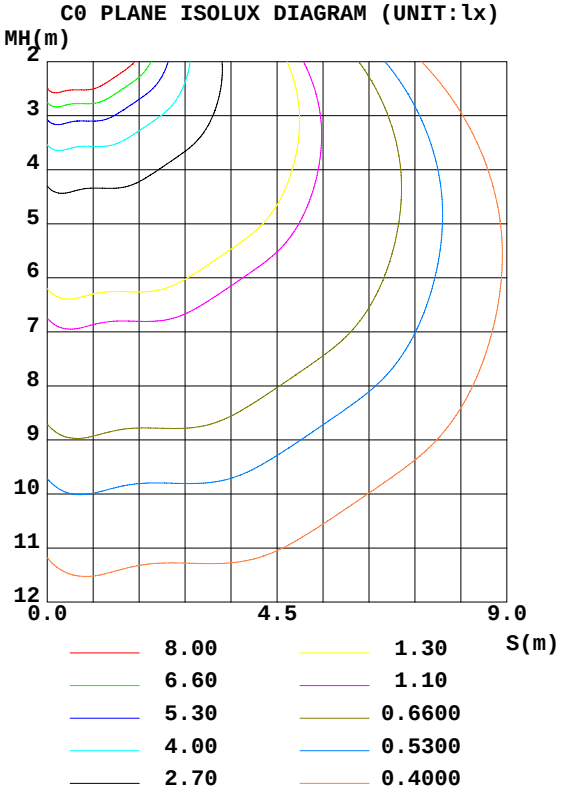
DATA OF LAMP		PHOTOMETRIC DATA Eff: 124.02 lm/W			
MODEL	0019590107	Imax(cd)	90.92	S/MH(C0/180)	2.09
NOMINAL POWER(W)	7	LOR(%)	100.0	S/MH(C90/270)	2.13
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	806	η UP,DN(C0-180)	21.1,28.1
NOMINAL FLUX(lm)	806	CIE CLASS	DIFFUSE	η UP,DN(C180-360)	22.7,28.1
LAMPS INSIDE	1	η up(%)	43.8	CIBSE SHR NOM	2.00
TEST VOLTAGE(V)	230	η down(%)	56.2	CIBSE SHR MAX	2.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):301.4 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XCJ
Test Date:2024-12-04

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:65.0%
Test Distance:9.313m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum,lamp
10	53.28	48.27	53.61	51.76					0- 10	4.888	4.888	0.54,0.54
20	60.24	54.42	52.53	52.64					10- 20	15.07	19.96	2.23,2.23
30	64.32	64.61	59.30	62.20					20- 30	27.25	47.20	5.26,5.26
40	72.51	74.46	70.07	73.24					30- 40	42.58	89.78	10,10
50	78.88	79.58	77.14	79.01					40- 50	58.85	148.6	16.6,16.6
60	84.06	86.35	84.24	84.89					50- 60	73.19	221.8	24.7,24.7
70	86.76	90.28	90.18	89.99					60- 70	86.71	308.5	34.4,34.4
80	87.98	91.96	93.66	92.95					70- 80	95.81	404.3	45.1,45.1
90	86.81	90.86	93.18	93.16					80- 90	99.91	504.2	56.2,56.2
100	83.04	86.18	89.20	89.13					90-100	97.25	601.5	67.1,67.1
110	77.52	78.66	83.14	81.86					100-110	88.55	690.0	76.9,76.9
120	68.80	69.61	74.42	73.12					110-120	75.62	765.7	85.4,85.4
130	56.07	57.33	62.03	61.69					120-130	58.91	824.6	91.9,91.9
140	39.96	42.05	43.15	48.40					130-140	40.17	864.8	96.4,96.4
150	23.58	23.53	26.97	30.10					140-150	21.77	886.5	98.8,98.8
160	10.66	9.460	12.72	13.75					150-160	8.665	895.2	99.8,99.8
170	1.231	1.098	1.205	1.412					160-170	1.611	896.8	100,100
180	1.111	1.105	1.105	1.098					170-180	0.1105	896.9	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XCJ
Test Date:2024-12-04

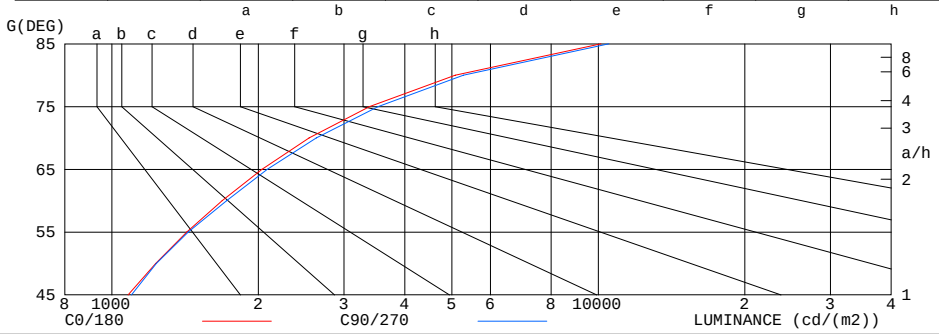
γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:65.0%
Test Distance:9.313m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.05V I:0.0392A P:6.6676W PF:0.7390 Freq:49.99Hz Lamp Flux:826.91x1 lm		
NAME: 0019590107	**TYPE:**	**WEIGHT:**
SPEC.: 0019590107 3713201 7W 2200-2700K 806lm	**DIM.:**	**SERIAL No.:1**
MFR.: /	**SUR.:**	**Shielding Angle:**

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	10123	10509
80	5081	5281
75	3388	3527
70	2544	2632
65	2035	2087
60	1686	1722
55	1425	1436
50	1231	1235
45	1080	1097

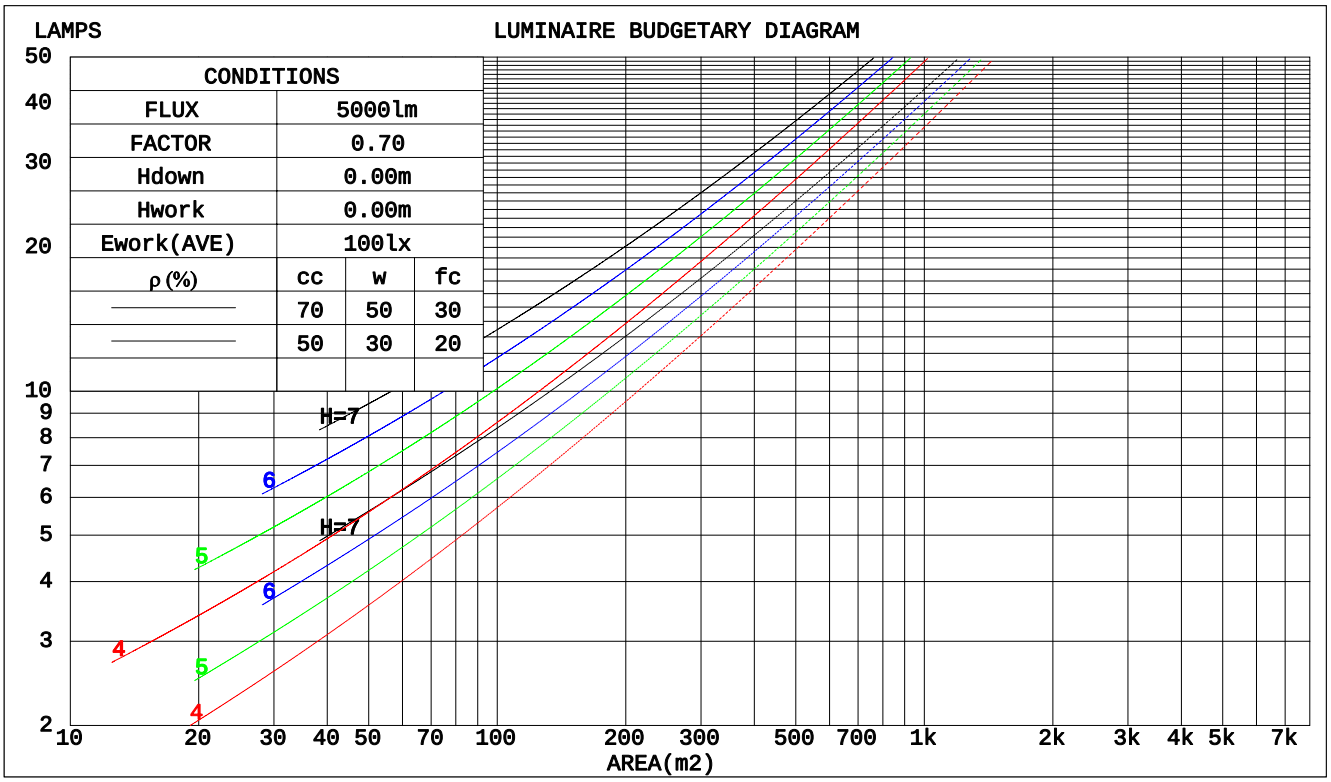
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XCJ
Test Date:2024-12-04

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:65.0%
Test Distance:9.313m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.05V I:0.0392A P:6.6676W PF:0.7390 Freq:49.99Hz Lamp Flux:826.91x1 lm		
NAME: 0019590107	TYPE:	WEIGHT:
SPEC.: 0019590107 3713201 7W 2200-2700K 806lm	DIM.:	SERIAL No.:1
MFR.: /	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.09	1.09	1.09	1.01	1.01	1.01	.87	.87	.87	.74	.74	.74	.62	.62	.62	.56
1.0	.87	.81	.75	.80	.75	.70	.68	.64	.60	.56	.53	.50	.46	.43	.41	.36
2.0	.73	.64	.57	.67	.60	.53	.56	.50	.45	.46	.42	.38	.37	.34	.31	.26
3.0	.62	.53	.45	.57	.49	.42	.48	.41	.36	.39	.34	.30	.31	.27	.24	.19
4.0	.54	.44	.37	.50	.41	.34	.42	.35	.29	.34	.28	.24	.27	.23	.19	.15
5.0	.47	.38	.31	.44	.35	.28	.37	.29	.24	.30	.24	.20	.24	.19	.16	.12
6.0	.42	.33	.26	.39	.30	.24	.33	.26	.20	.27	.21	.17	.21	.17	.13	.10
7.0	.38	.29	.22	.35	.26	.21	.29	.22	.17	.24	.18	.14	.19	.15	.11	.09
8.0	.34	.25	.19	.31	.23	.18	.26	.20	.15	.22	.16	.12	.17	.13	.10	.07
9.0	.31	.22	.17	.28	.21	.16	.24	.18	.13	.20	.15	.11	.16	.12	.09	.06
10.0	.28	.20	.15	.26	.19	.14	.22	.16	.12	.18	.13	.10	.15	.11	.08	.06



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XCJ
Test Date:2024-12-04

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:65.0%
Test Distance:9.313m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.05V I:0.0392A P:6.6676W PF:0.7390 Freq:49.99Hz Lamp Flux:826.91x1 lm		
NAME: 0019590107	TYPE:	WEIGHT:
SPEC.: 0019590107 3713201 7W 2200-2700K 806lm	DIM.:	SERIAL No.:1
MFR.: /	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.436	.248	.078	.415	.237	.075	.376	.216	.069	.341	.197	.063	.308	.179	.058	
2.0	.360	.197	.060	.341	.188	.058	.306	.170	.053	.273	.153	.048	.243	.137	.043	
3.0	.312	.166	.050	.294	.158	.047	.262	.142	.043	.232	.127	.039	.205	.113	.035	
4.0	.276	.143	.042	.260	.136	.040	.231	.122	.037	.203	.109	.033	.178	.097	.029	
5.0	.248	.126	.037	.234	.120	.035	.206	.107	.032	.181	.096	.028	.158	.084	.025	
6.0	.225	.113	.032	.212	.107	.031	.187	.096	.028	.164	.085	.025	.142	.075	.022	
7.0	.206	.102	.029	.194	.097	.028	.171	.087	.025	.149	.077	.022	.129	.067	.020	
8.0	.190	.093	.026	.179	.088	.025	.158	.079	.022	.138	.070	.020	.119	.061	.018	
9.0	.177	.085	.024	.166	.081	.023	.146	.072	.021	.128	.064	.018	.110	.056	.016	
10.0	.165	.079	.022	.155	.075	.021	.136	.067	.019	.119	.059	.017	.102	.051	.015	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.524	.524	.524	.448	.448	.448	.306	.306	.306	.176	.176	.176	.056	.056	.056	
1.0	.525	.491	.461	.449	.422	.397	.307	.290	.274	.177	.168	.159	.057	.054	.052	
2.0	.520	.470	.428	.445	.405	.370	.305	.280	.258	.176	.163	.151	.056	.053	.049	
3.0	.513	.455	.409	.440	.392	.354	.302	.273	.249	.174	.159	.147	.056	.052	.048	
4.0	.505	.443	.396	.434	.383	.344	.298	.267	.242	.172	.156	.143	.056	.051	.047	
5.0	.498	.434	.388	.427	.376	.337	.294	.263	.238	.171	.154	.141	.055	.050	.047	
6.0	.490	.427	.382	.421	.370	.332	.291	.259	.235	.169	.152	.140	.054	.050	.046	
7.0	.483	.421	.377	.416	.365	.329	.287	.256	.233	.167	.151	.139	.054	.049	.046	
8.0	.477	.416	.374	.410	.360	.326	.284	.253	.231	.165	.149	.138	.053	.049	.046	
9.0	.470	.411	.371	.405	.357	.324	.281	.251	.230	.164	.148	.137	.053	.049	.045	
10.0	.464	.407	.369	.400	.354	.322	.278	.249	.229	.162	.147	.137	.053	.048	.045	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XCJ
Test Date:2024-12-04

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:65.0%
Test Distance:9.313m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.05V I:0.0392A P:6.6676W PF:0.7390 Freq:49.99Hz Lamp Flux:826.91x1 lm		
NAME: 0019590107	TYPE:	WEIGHT:
SPEC.: 0019590107 3713201 7W 2200-2700K 806lm	DIM.:	SERIAL No.:1
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	11.9	13.1	12.7	13.9	15.0	12.0	13.1	12.8	14.0	15.0
3H	15.3	16.3	16.1	17.2	18.3	15.4	16.5	16.2	17.3	18.4
4H	17.1	18.1	18.0	19.0	20.1	17.3	18.3	18.2	19.2	20.3
6H	19.2	20.2	20.1	21.1	22.2	19.4	20.4	20.3	21.3	22.4
8H	20.4	21.3	21.3	22.2	23.3	20.6	21.5	21.5	22.4	23.6
12H	21.7	22.6	22.6	23.5	24.6	21.9	22.8	22.8	23.7	24.9
4H 2H	13.0	14.0	13.8	14.8	16.0	13.0	14.0	13.9	14.9	16.0
3H	16.4	17.3	17.3	18.2	19.4	16.5	17.4	17.4	18.3	19.5
4H	18.4	19.2	19.3	20.2	21.3	18.6	19.4	19.5	20.3	21.5
6H	20.7	21.4	21.6	22.3	23.5	20.8	21.6	21.7	22.5	23.7
8H	21.9	22.6	22.8	23.5	24.7	22.1	22.8	23.0	23.7	24.9
12H	23.3	23.9	24.2	24.9	26.1	23.5	24.1	24.4	25.1	26.3
8H 4H	19.2	19.9	20.1	20.8	22.0	19.3	20.0	20.2	20.9	22.1
6H	21.7	22.3	22.6	23.2	24.5	21.8	22.4	22.8	23.4	24.6
8H	23.1	23.6	24.1	24.6	25.9	23.2	23.8	24.2	24.8	26.0
12H	24.7	25.2	25.7	26.2	27.4	24.9	25.3	25.9	26.3	27.6
12H 4H	19.4	20.0	20.3	21.0	22.2	19.5	20.1	20.4	21.1	22.3
6H	22.0	22.5	23.0	23.5	24.8	22.1	22.7	23.1	23.6	24.9
8H	23.5	24.0	24.5	25.0	26.3	23.7	24.1	24.6	25.1	26.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117, 896.9 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.4)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XCJ
Test Date:2024-12-04

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:65.0%
Test Distance:9.313m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.05V I:0.0392A P:6.6676W PF:0.7390 Freq:49.99Hz Lamp Flux:826.91x1 lm		
NAME: 0019590107	TYPE:	WEIGHT:
SPEC.: 0019590107 3713201 7W 2200-2700K 806lm	DIM.:	SERIAL No.:1
MFR.: /	SUR.:	Shielding Angle:

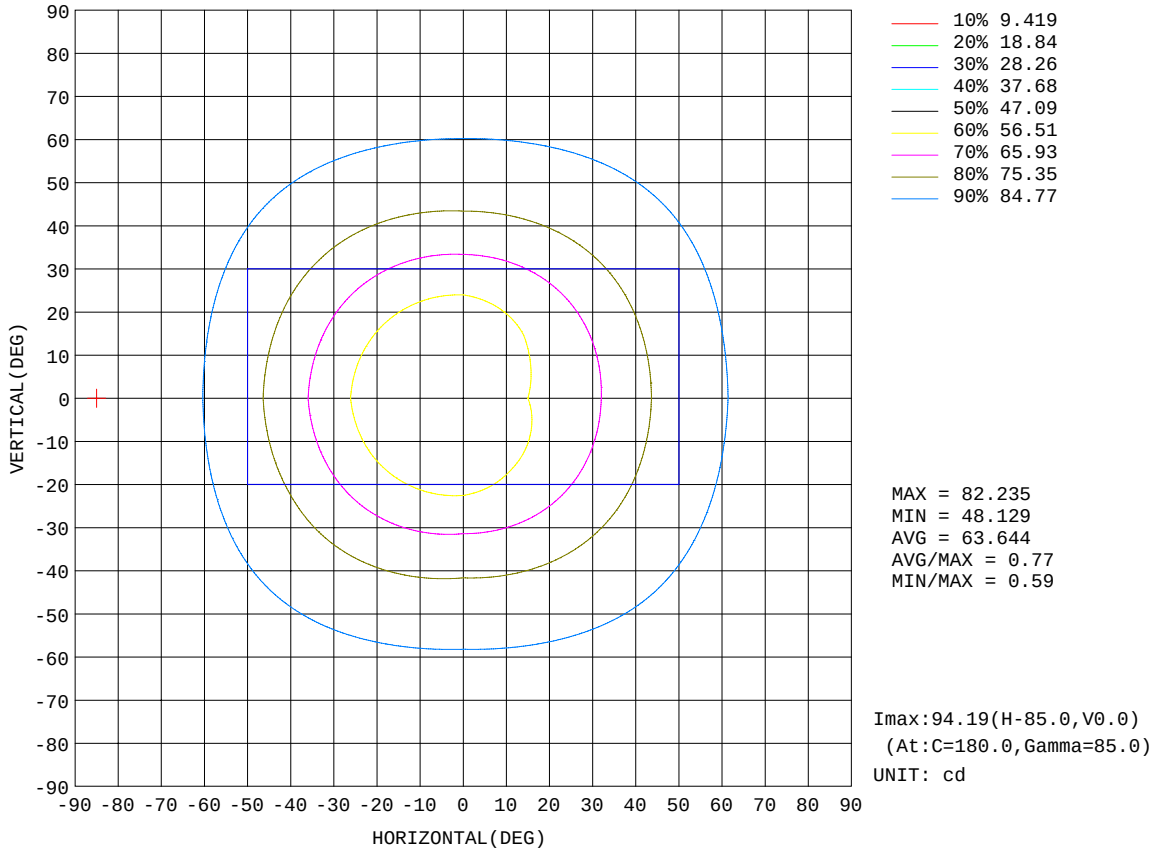
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	36	23	16	34	22	15	31	21	14	7
0.80	44	30	22	42	29	21	38	26	19	10
1.00	52	37	28	49	35	26	43	34	24	13
1.25	58	44	34	55	42	32	48	37	29	17
1.50	64	49	39	60	47	37	52	41	34	19
2.00	72	58	48	67	55	46	58	48	41	24
2.50	77	64	55	71	60	52	62	53	46	27
3.00	81	69	60	75	65	57	65	57	50	30
4.00	86	76	68	80	71	64	69	62	56	34
5.00	90	81	74	83	76	69	72	65	60	37
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:XCJ
Test Date:2024-12-04

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:65.0%
Test Distance:9.313m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.05V I:0.0392A P:6.6676W PF:0.7390 Freq:49.99Hz Lamp Flux:826.91x1 lm		
NAME: 0019590107	**TYPE:**	**WEIGHT:**
SPEC.: 0019590107 3713201 7W 2200-2700K 806lm	**DIM.:**	**SERIAL No.:1**
MFR.: /	**SUR.:**	**Shielding Angle:**



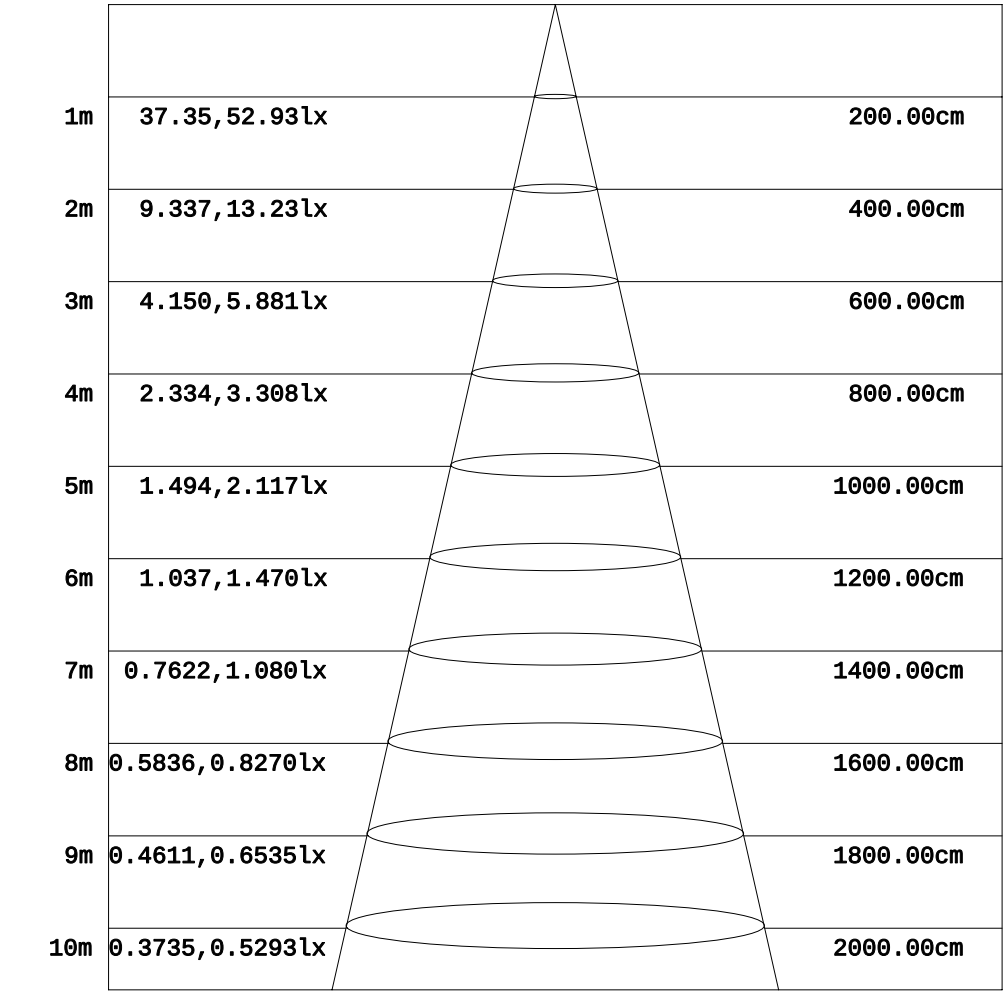
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
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γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:65.0%
Test Distance:9.313m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.05V I:0.0392A P:6.6676W PF:0.7390 Freq:49.99Hz Lamp Flux:826.91x1 lm		
NAME: 0019590107	TYPE:	WEIGHT:
SPEC.: 0019590107 3713201 7W 2200-2700K 806lm	DIM.:	SERIAL No.:1
MFR.: /	SUR.:	Shielding Angle:

Flux out:117.3 lm



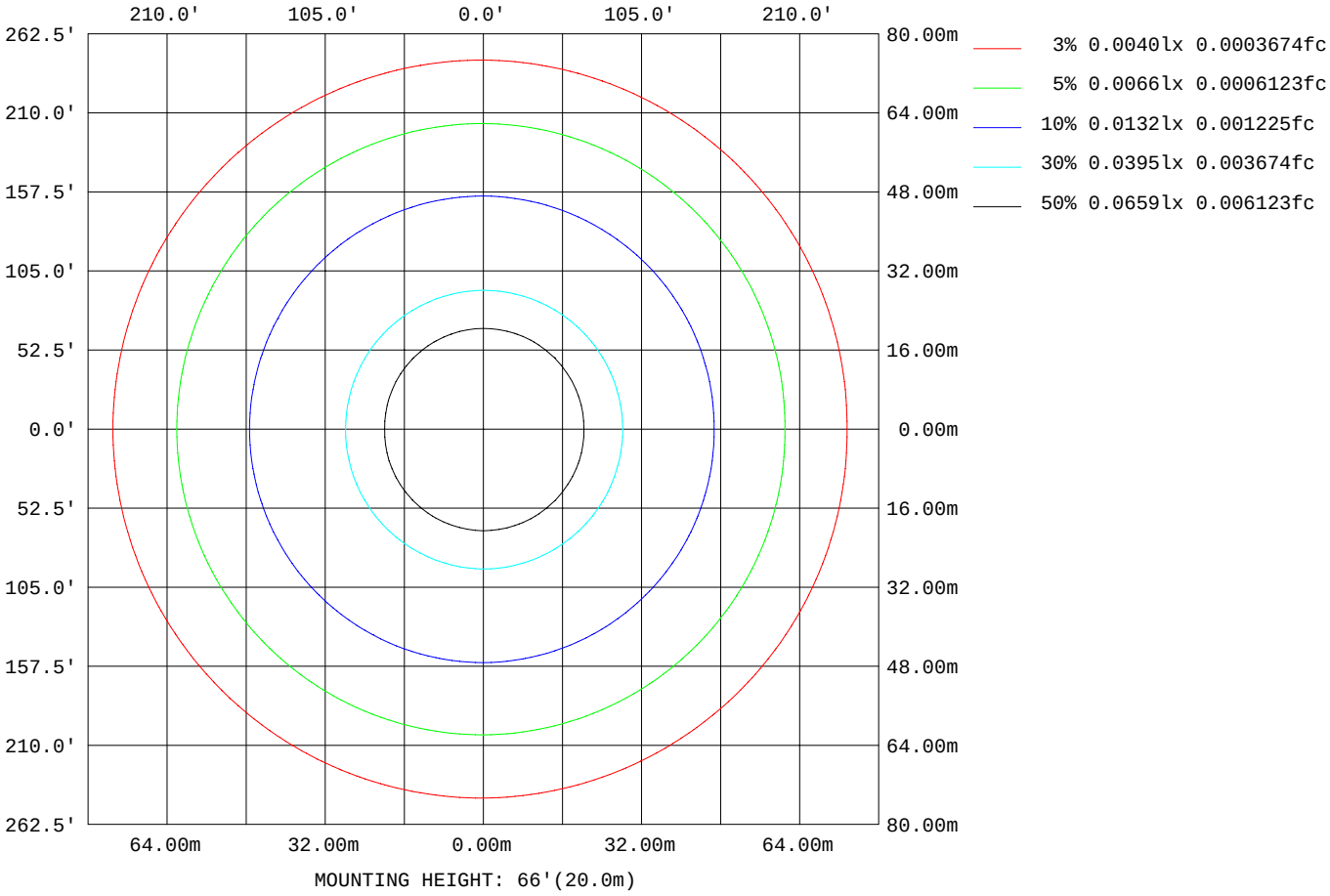
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XCJ
Test Date:2024-12-04

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:65.0%
Test Distance:9.313m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:230.05V I:0.0392A P:6.6676W PF:0.7390 Freq:49.99Hz Lamp Flux:826.91x1 lm		
NAME: 0019590107	**TYPE:**	**WEIGHT:**
SPEC.: 0019590107 3713201 7W 2200-2700K 806lm	**DIM.:**	**SERIAL No.:1**
MFR.: /	**SUR.:**	**Shielding Angle:**



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XCJ
Test Date:2024-12-04

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.6
Humidity:65.0%
Test Distance:9.313m [K=1.0000]
Remarks:

LED Avg.L Report

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SPEC.: 0019590107 3713201 7W 2200-2700K 806lm	**DIM.:**	**SERIAL No.:1**
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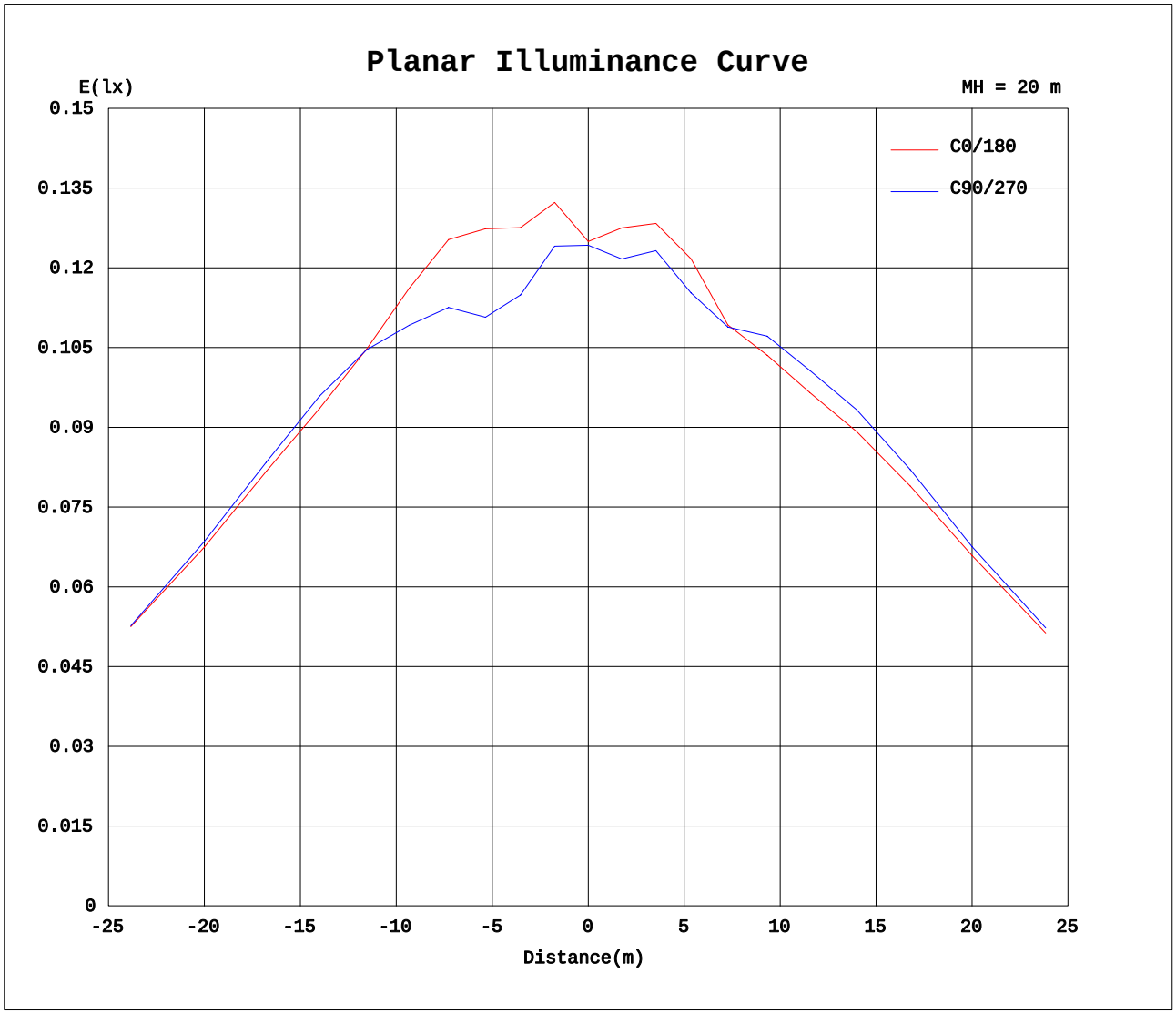
AvgL	cd/m2
L_0~180(65)av	2057
L_0~180(75)av	3467
L_0~180(85)av	10435
L_90~270(65)av	2087
L_90~270(75)av	3538
L_90~270(85)av	10636
L_45(65)av	2077
L_45(75)av	3517
L_45(85)av	10581

Standard: GB/T 29293-2012

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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

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NAME: 0019590107	TYPE:	WEIGHT:
SPEC.: 0019590107 3713201 7W 2200-2700K 806lm	DIM.:	SERIAL No.:1
MFR.: /	SUR.:	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	90	180	270
0	49.8	49.8	49.8	49.8
5	53.4	50.4	51.4	49.4
10	53.3	48.3	53.6	51.8
15	56.4	49.3	53.9	51.3
20	60.2	54.4	52.5	52.6
25	62.2	58.9	55.5	57.7
30	64.3	64.6	59.3	62.2
35	67.9	70.0	64.7	68.1
40	72.5	74.5	70.1	73.2
45	76.1	77.8	74.4	76.7
50	78.9	79.6	77.1	79.0
55	81.5	82.6	79.8	81.3
60	84.1	86.4	84.2	84.9
65	85.7	88.5	88.1	87.9
70	86.8	90.3	90.2	90.0
75	87.4	91.6	92.0	91.6
80	88.0	92.0	93.7	93.0
85	88.0	91.9	93.9	93.5
90	86.8	90.9	93.2	93.2
95	85.1	88.9	91.5	91.7
100	83.0	86.2	89.2	89.1
105	80.4	82.6	86.4	85.8
110	77.5	78.7	83.1	81.9
115	74.1	74.2	79.4	77.8
120	68.8	69.6	74.4	73.1
125	62.5	63.9	68.7	67.9
130	56.1	57.3	62.0	61.7
135	48.9	50.5	53.2	55.7
140	40.0	42.0	43.1	48.4
145	30.8	32.3	34.1	39.1
150	23.6	23.5	27.0	30.1
155	15.9	15.0	19.0	21.8
160	10.7	9.46	12.7	13.7
165	2.55	1.51	5.01	7.23
170	1.23	1.10	1.20	1.41
175	1.11	1.10	1.10	1.13
180	1.11	1.10	1.10	1.10

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