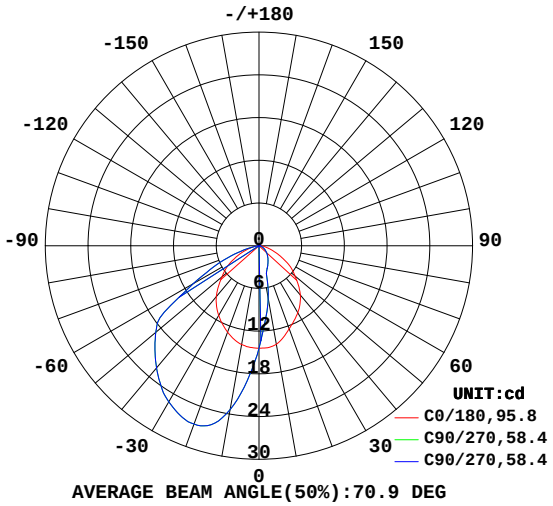
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.21V I:0.0153A P:2.8882W PF:0.8224 Freq:49.99Hz UTHDi:0.19% ITHDi:29.80% KDisp:0.8602 Lamp Flux:38.2492x1 lm		
NAME: DL195-3W-3000K-2	TYPE: 3W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.00125	Shielding Angle:

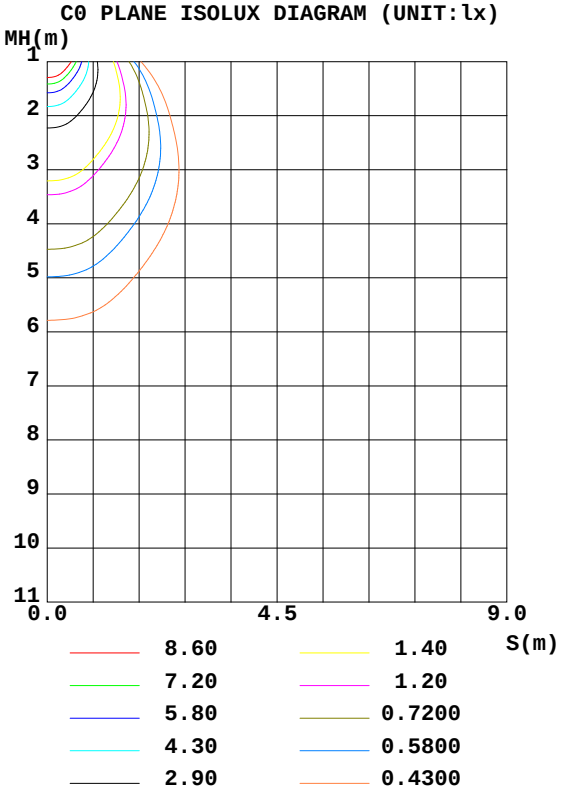
DATA OF LAMP		PHOTOMETRIC DATA Eff: 13.24 lm/W			
MODEL	DL195-3W-3000K-2	Imax(cd)	26.66	S/MH(C0/180)	1.18
NOMINAL POWER(W)	3	LOR(%)	100.0	S/MH(C90/270)	1.93
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	38.249	η UP,DN(C0-180)	1.0,26.7
NOMINAL FLUX(lm)	38.2492	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.7,71.5
LAMPS INSIDE	1	η up(%)	1.7	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	230.0	η down(%)	98.3	CIBSE SHR MAX	1.05

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):70.9 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-12-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.600m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum,lamp
10	14.06	7.480	14.10	23.35					0- 10	1.397	1.397	3.65,3.65
20	12.42	3.400	12.91	26.66					10- 20	4.040	5.437	14.2,14.2
30	10.89	2.559	11.32	25.33					20- 30	6.104	11.54	30.2,30.2
40	9.039	1.896	9.338	22.41					30- 40	7.291	18.83	49.2,49.2
50	6.620	1.331	6.803	18.93					40- 50	7.362	26.19	68.5,68.5
60	4.325	0.8470	4.521	10.68					50- 60	6.211	32.41	84.7,84.7
70	2.098	0.4589	2.162	4.167					60- 70	3.531	35.94	94,94
80	0.8057	0.1668	0.8038	0.5808					70- 80	1.348	37.29	97.5,97.5
90	0.0717	0.0776	0.0716	0.0716					80- 90	0.3047	37.59	98.3,98.3
100	0.0716	0.1015	0.0776	0.0597					90-100	0.0803	37.67	98.5,98.5
110	0.0716	0.1373	0.0895	0.0597					100-110	0.0877	37.76	98.7,98.7
120	0.0955	0.1615	0.1074	0.0597					110-120	0.0977	37.86	99,99
130	0.1551	0.1671	0.1193	0.0597					120-130	0.1071	37.96	99.3,99.3
140	0.1551	0.1671	0.1313	0.0597					130-140	0.0985	38.06	99.5,99.5
150	0.1372	0.1671	0.1372	0.0597					140-150	0.0803	38.14	99.7,99.7
160	0.1432	0.1671	0.1372	0.0597					150-160	0.0580	38.20	99.9,99.9
170	0.1492	0.1671	0.1372	0.0836					160-170	0.0366	38.24	100,100
180	0.1492	0.1492	0.1372	0.1313					170-180	0.0129	38.25	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

0 - 45 DEG Zonal Flux:22.573 %lum: 59.0%
0 - 60 DEG Zonal Flux:32.406 %lum: 84.7%
All measured values may vary less than 35 %
from the average measured value in the 0 to 130 deg. zone: 9.4%
All measured values in the 0 to 130 deg. zone
may vary less than 50% from the average value of itself: 14.7%

C Range: 0 - 360DEG
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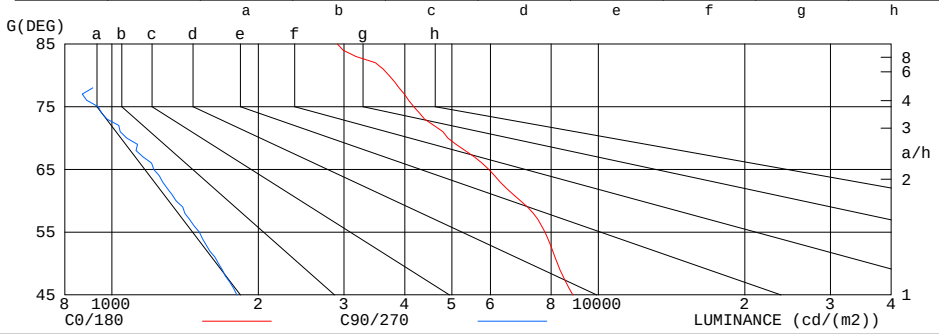
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.600m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.21V I:0.0153A P:2.8882W PF:0.8224 Freq:49.99Hz UTHDi:0.19% ITHDi:29.80% KDisp:0.8602 Lamp Flux:38.2492x1 lm		
NAME: DL195-3W-3000K-2	TYPE: 3W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.00125	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	2908	712
80	3713	768
75	4175	938
70	4907	1073
65	5954	1220
60	6921	1355
55	7770	1513
50	8241	1656
45	8865	1807

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Test Speed: HIGH
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γ Range: 0 - 180DEG
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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.600m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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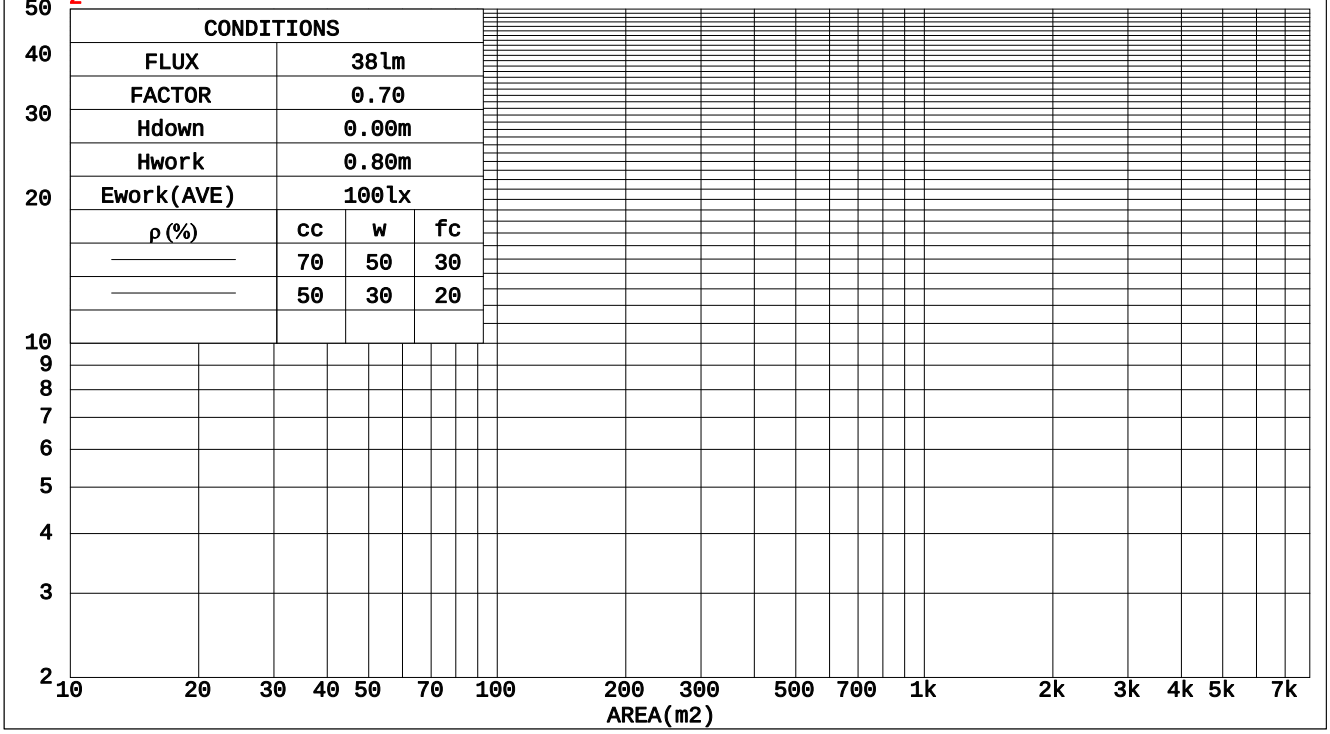
NAME: DL195-3W-3000K-2	TYPE: 3W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.00125	Shielding Angle:

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	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	.98
1.0	1.05	1.02	.98	1.03	.00	.96	.98	.96	.93	.94	.92	.90	.90	.89	.87	.85
2.0	.93	.87	.82	.91	.85	.80	.87	.82	.78	.84	.80	.76	.81	.77	.74	.72
3.0	.82	.75	.69	.81	.74	.68	.77	.72	.67	.75	.69	.65	.72	.68	.64	.62
4.0	.73	.65	.59	.72	.64	.58	.69	.63	.57	.67	.61	.56	.64	.60	.55	.53
5.0	.66	.57	.51	.65	.57	.51	.62	.55	.50	.60	.54	.49	.58	.53	.49	.46
6.0	.59	.51	.45	.58	.50	.44	.56	.49	.44	.55	.48	.43	.53	.47	.43	.41
7.0	.54	.45	.40	.53	.45	.39	.51	.44	.39	.50	.43	.39	.48	.43	.38	.36
8.0	.49	.41	.35	.48	.41	.35	.47	.40	.35	.46	.39	.35	.44	.39	.34	.32
9.0	.45	.37	.32	.45	.37	.32	.43	.36	.31	.42	.36	.31	.41	.35	.31	.29
10.0	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.28	.38	.32	.28	.26

3 LAMPS 2 LUMINAIRE BUDGETARY DIAGRAM



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-12-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.600m [K=1.0000]
Remarks:

WEC AND CCEC

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NAME: DL195-3W-3000K-2	TYPE: 3W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.00125	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	.273	.155	.049	.266	.152	.048	.252	.144	.046	.239	.138	.044	.227	.132	.042	
2.0	.264	.144	.044	.257	.142	.044	.245	.136	.042	.233	.131	.041	.223	.126	.040	
3.0	.248	.132	.040	.243	.130	.039	.232	.126	.038	.222	.121	.037	.212	.117	.036	
4.0	.232	.121	.036	.227	.119	.035	.218	.115	.034	.209	.112	.034	.200	.109	.033	
5.0	.217	.111	.032	.213	.109	.032	.204	.106	.031	.196	.103	.031	.188	.101	.030	
6.0	.203	.102	.029	.199	.100	.029	.191	.098	.029	.184	.096	.028	.177	.093	.028	
7.0	.190	.094	.027	.187	.093	.026	.180	.091	.026	.173	.089	.026	.167	.087	.025	
8.0	.179	.087	.025	.175	.086	.024	.169	.084	.024	.163	.083	.024	.158	.081	.024	
9.0	.168	.081	.023	.165	.080	.023	.159	.079	.022	.154	.077	.022	.149	.076	.022	
10.0	.159	.076	.021	.156	.075	.021	.151	.074	.021	.146	.072	.021	.141	.071	.020	

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	.204	.204	.204	.174	.174	.174	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.191	.170	.150	.163	.146	.130	.112	.100	.090	.064	.058	.052	.021	.019	.017	
2.0	.182	.145	.115	.156	.125	.099	.107	.087	.069	.062	.050	.041	.020	.016	.013	
3.0	.174	.128	.091	.149	.110	.079	.102	.076	.055	.059	.045	.033	.019	.014	.011	
4.0	.166	.114	.074	.143	.099	.065	.098	.069	.045	.057	.040	.027	.018	.013	.009	
5.0	.159	.104	.063	.137	.090	.054	.094	.063	.038	.054	.037	.023	.018	.012	.008	
6.0	.152	.095	.054	.131	.082	.047	.090	.058	.033	.052	.034	.020	.017	.011	.007	
7.0	.146	.088	.048	.125	.076	.042	.087	.054	.030	.050	.032	.018	.016	.010	.006	
8.0	.140	.082	.043	.120	.072	.038	.083	.050	.027	.048	.030	.016	.016	.010	.005	
9.0	.134	.078	.040	.115	.067	.034	.080	.047	.024	.047	.028	.015	.015	.009	.005	
10.0	.128	.073	.037	.111	.064	.032	.077	.045	.023	.045	.026	.014	.015	.009	.004	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-12-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.600m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.21V I:0.0153A P:2.8882W PF:0.8224 Freq:49.99Hz UTHDi:0.19% ITHDi:29.80% KDisp:0.8602 Lamp Flux:38.2492x1 lm		
NAME: DL195-3W-3000K-2	TYPE: 3W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.00125	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	17.8	19.3	18.1	19.5	19.7	12.5	13.9	12.8	14.1	14.4
3H	18.9	20.2	19.2	20.5	20.7	13.0	14.3	13.4	14.6	14.9
4H	19.3	20.5	19.6	20.8	21.1	13.2	14.4	13.5	14.7	15.0
6H	19.6	20.7	19.9	21.0	21.3	13.3	14.4	13.6	14.7	15.0
8H	19.6	20.8	20.0	21.1	21.4	13.3	14.4	13.7	14.7	15.0
12H	19.7	20.7	20.0	21.1	21.4	13.3	14.3	13.6	14.7	15.0
4H 2H	17.9	19.2	18.3	19.4	19.7	13.8	15.0	14.1	15.3	15.6
3H	19.2	20.2	19.5	20.5	20.9	14.5	15.6	14.9	15.9	16.2
4H	19.6	20.6	20.0	21.0	21.3	14.8	15.7	15.2	16.1	16.4
6H	20.0	20.9	20.5	21.3	21.7	14.9	15.8	15.3	16.1	16.5
8H	20.2	21.0	20.6	21.4	21.8	14.9	15.7	15.4	16.1	16.6
12H	20.2	21.0	20.7	21.4	21.8	14.9	15.7	15.4	16.1	16.5
8H 4H	19.6	20.4	20.1	20.8	21.2	15.2	16.0	15.7	16.4	16.8
6H	20.1	20.8	20.6	21.2	21.7	15.5	16.2	16.0	16.6	17.1
8H	20.3	20.9	20.8	21.4	21.9	15.6	16.2	16.1	16.6	17.1
12H	20.5	21.0	21.0	21.4	21.9	15.7	16.1	16.2	16.6	17.1
12H 4H	19.6	20.3	20.1	20.7	21.2	15.3	16.0	15.7	16.4	16.9
6H	20.1	20.7	20.6	21.2	21.6	15.6	16.2	16.1	16.7	17.2
8H	20.3	20.8	20.9	21.3	21.8	15.8	16.3	16.3	16.7	17.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.2					+ 0.5 / - 0.6				
1.5H	+ 0.4 / - 0.6					+ 0.6 / - 1.0				
2.0H	+ 1.0 / - 1.2					+ 1.1 / - 1.8				

CIE Pub.117, 38.25 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -11.3)
Area: 0.00125 m2

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UTILIZATION FACTORS TABLE

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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) x RCR = 5									
k = 0.60	60	48	42	59	48	42	58	48	41	35
0.80	70	59	52	69	59	52	67	58	51	45
1.00	79	68	62	78	68	61	75	69	61	54
1.25	86	76	70	84	75	69	82	74	68	61
1.50	91	82	75	89	81	75	86	79	74	66
2.00	97	90	84	95	88	83	92	86	81	74
2.50	101	94	88	99	92	87	95	89	85	77
3.00	104	98	93	102	96	92	97	93	89	81
4.00	107	102	98	105	100	97	101	97	94	85
5.00	109	105	101	107	103	100	102	99	96	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

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ISOCANDELA DIAGRAM

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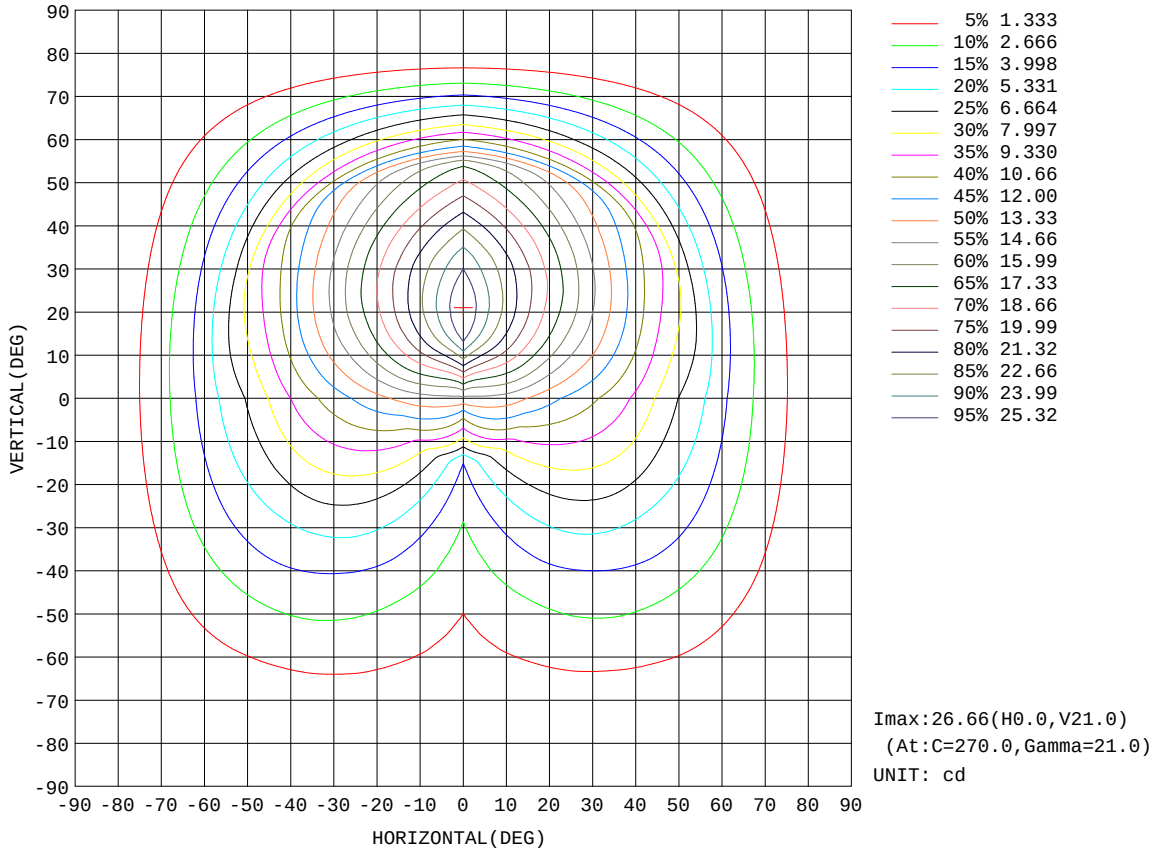

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AAI Figure

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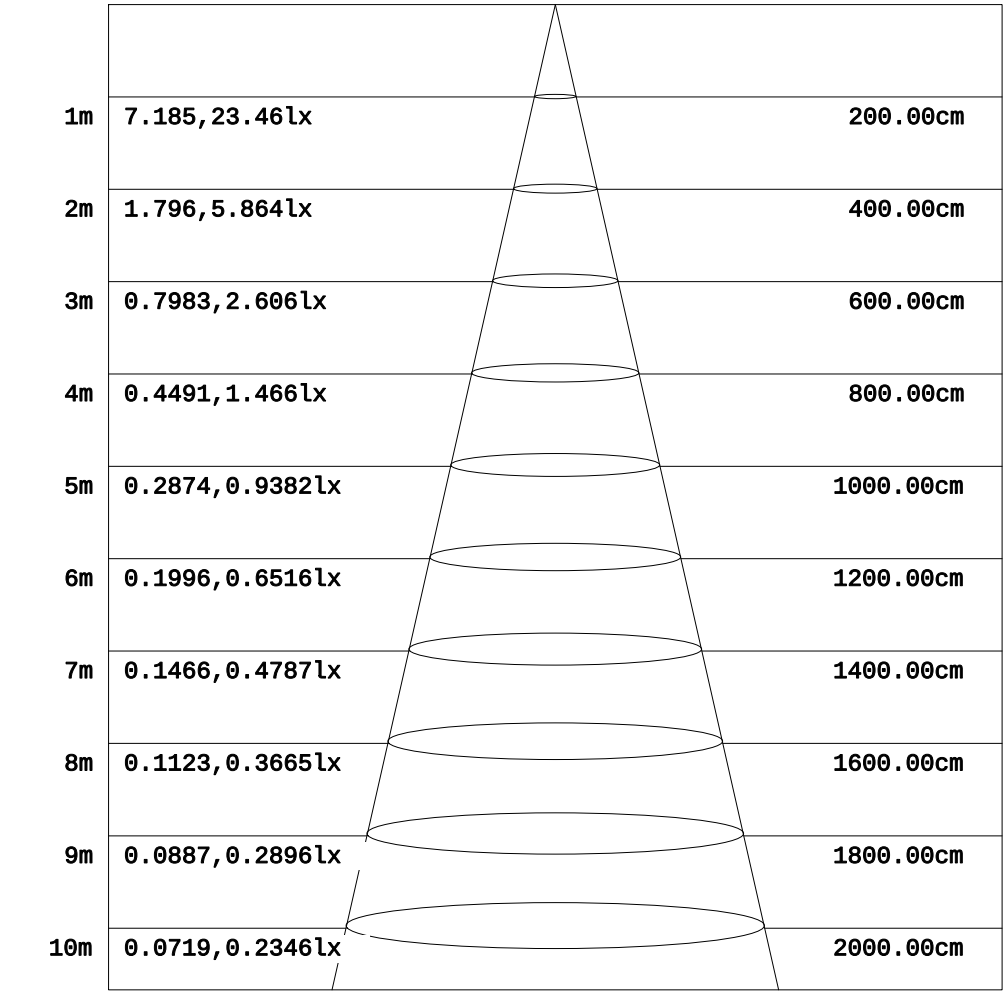
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.00125	Shielding Angle:

Flux out:22.57 lm



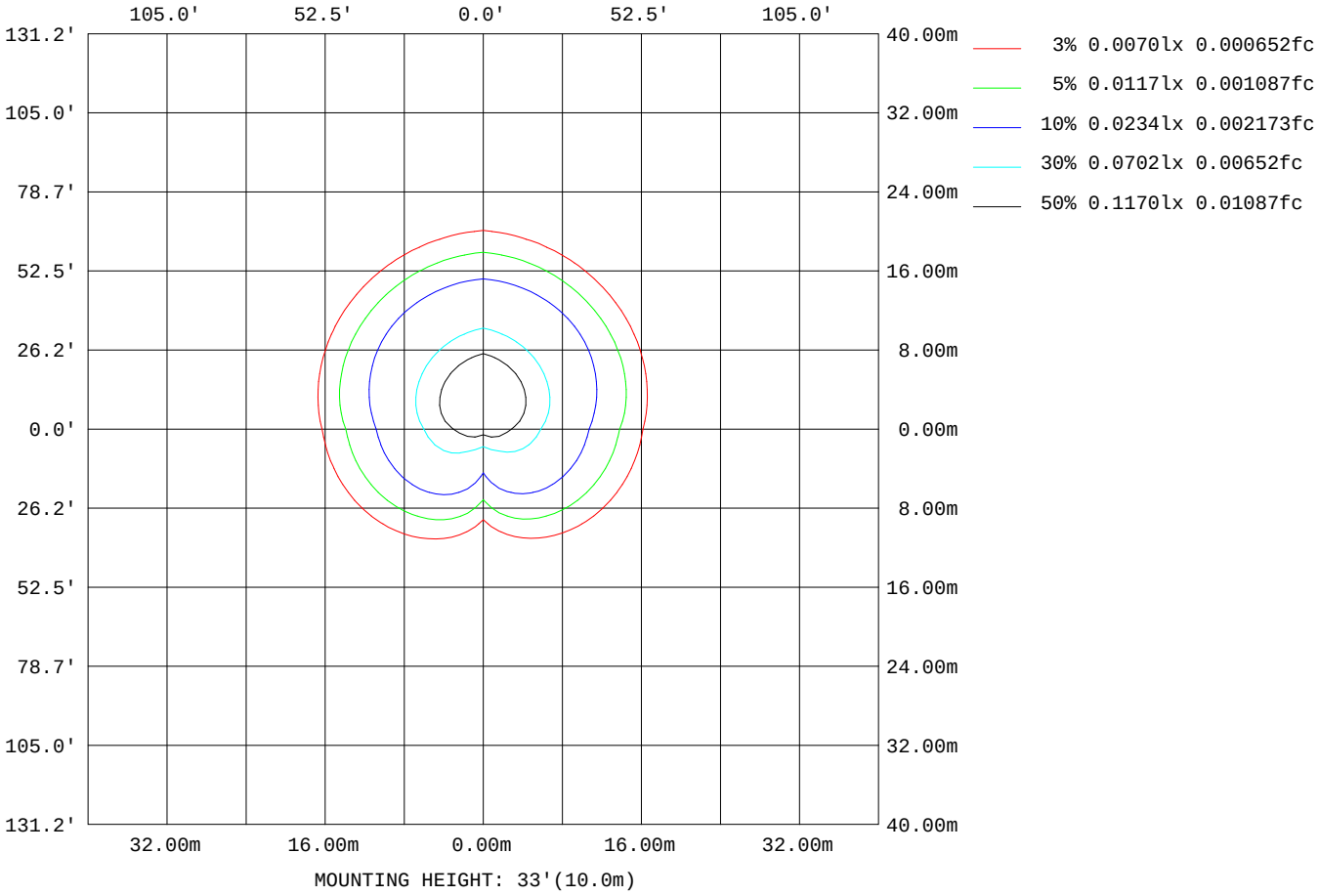
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-12-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.600m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:230.21V I:0.0153A P:2.8882W PF:0.8224 Freq:49.99Hz UTHDi:0.19% ITHDi:29.80% KDisp:0.8602 Lamp Flux:38.2492x1 lm		
NAME: DL195-3W-3000K-2	TYPE: 3W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.00125	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-12-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.600m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:230.21V I:0.0153A P:2.8882W PF:0.8224 Freq:49.99Hz UTHDi:0.19% ITHDi:29.80% KDisp:0.8602 Lamp Flux:38.2492x1 lm		
NAME: DL195-3W-3000K-2	TYPE: 3W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.00125	Shielding Angle:

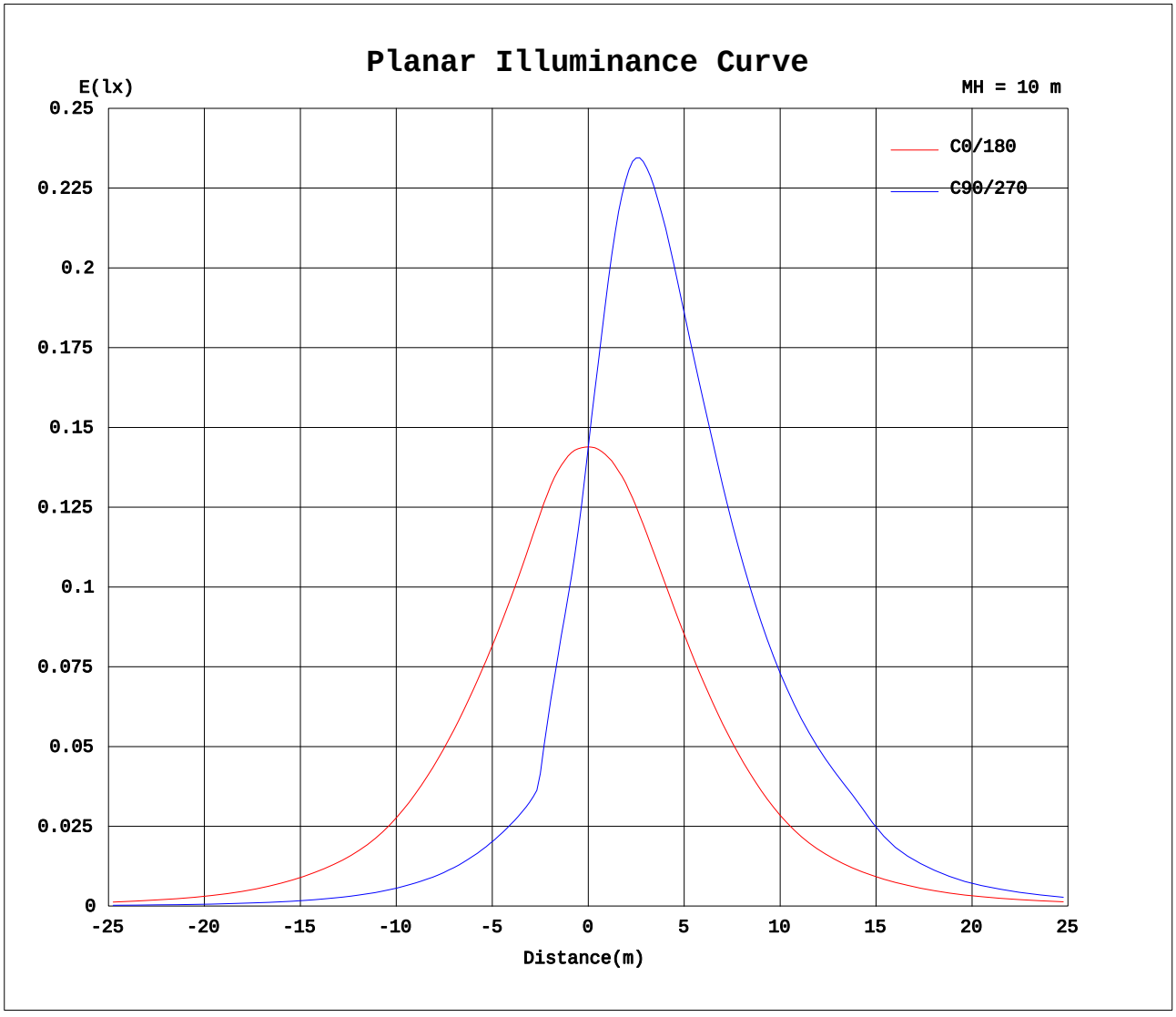
AvgL	cd/m2
L_0~180(65)av	6119
L_0~180(75)av	4152
L_0~180(85)av	3061
L_90~270(65)av	7315
L_90~270(75)av	3405
L_90~270(85)av	1562
L_45(65)av	6876
L_45(75)av	3684
L_45(85)av	2134

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-12-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.600m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-12-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.600m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.21V I:0.0153A P:2.8882W PF:0.8224 Freq:49.99Hz UTHDi:0.19% ITHDi:29.80% KDisp:0.8602 Lamp Flux:38.2492x1 lm		
NAME: DL195-3W-3000K-2	TYPE: 3W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.00125	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	90	180	270
0	14.4	14.4	14.4	14.4
5	14.4	10.4	14.3	19.0
10	14.1	7.48	14.1	23.4
15	13.3	4.03	13.6	26.0
20	12.4	3.40	12.9	26.7
25	11.6	2.96	12.1	26.3
30	10.9	2.56	11.3	25.3
35	10.0	2.20	10.4	24.0
40	9.04	1.90	9.34	22.4
45	7.83	1.60	8.05	20.7
50	6.62	1.33	6.80	18.9
55	5.57	1.09	5.71	16.3
60	4.32	0.85	4.52	10.7
65	3.14	0.64	3.32	7.08
70	2.10	0.46	2.16	4.17
75	1.35	0.30	1.34	1.90
80	0.81	0.17	0.80	0.58
85	0.32	0.08	0.35	0.26
90	0.07	0.08	0.07	0.07
95	0.07	0.08	0.07	0.06
100	0.07	0.10	0.08	0.06
105	0.07	0.11	0.08	0.06
110	0.07	0.14	0.09	0.06
115	0.08	0.15	0.10	0.06
120	0.10	0.16	0.11	0.06
125	0.14	0.17	0.11	0.06
130	0.16	0.17	0.12	0.06
135	0.16	0.17	0.13	0.06
140	0.16	0.17	0.13	0.06
145	0.14	0.17	0.14	0.06
150	0.14	0.17	0.14	0.06
155	0.14	0.17	0.14	0.06
160	0.14	0.17	0.14	0.06
165	0.15	0.17	0.14	0.07
170	0.15	0.17	0.14	0.08
175	0.15	0.17	0.14	0.10
180	0.15	0.15	0.14	0.13

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-12-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.600m [K=1.0000]
Remarks: