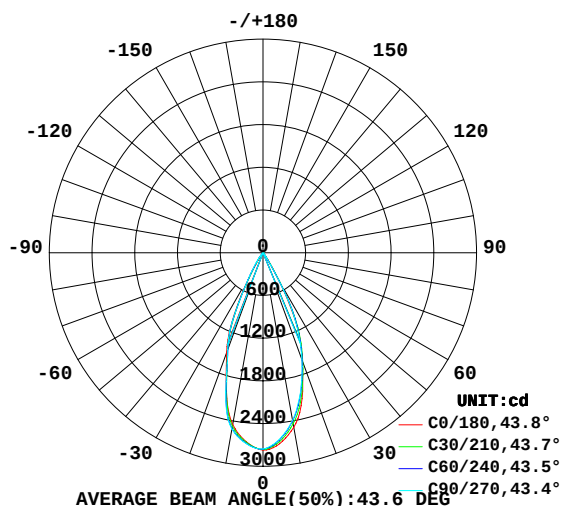


LUMINAIRE PHOTOMETRIC TEST REPORT

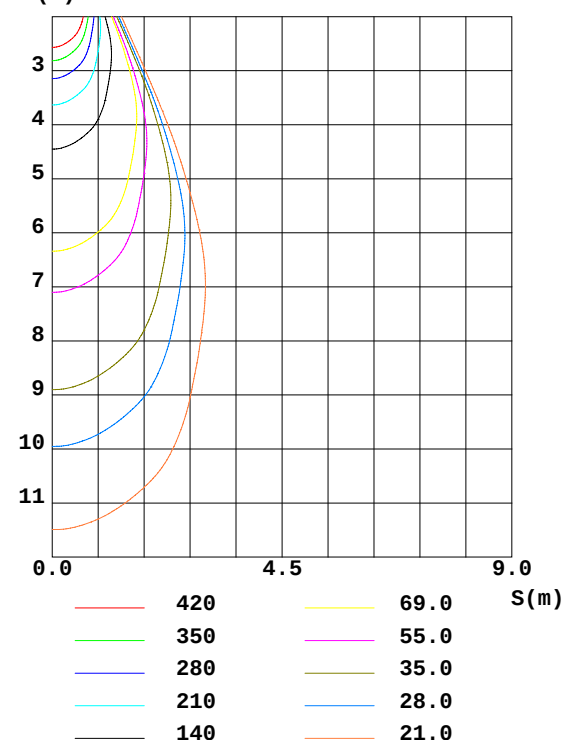
NAME: CL-Dot12 3000k-RA90-48D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 80.81 lm/W			
MODEL		I _{max} (cd)	2773	S/MH(C0/180)	0.70
NOMINAL POWER(W)	16	LOR(%)	100.0	S/MH(C90/270)	0.71
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1357.6	η UP, DN(C0-180)	0.2, 50.8
NOMINAL FLUX(lm)	1357.58	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 48.8
LAMPS INSIDE	1	η up(%)	0.4	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	24	η down(%)	99.6	CIBSE SHR MAX	0.70

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2490	2417	2393	2402	2449	2492	2516	2501	0- 10	247.7	247.7	18.2,18.2
20	1613	1627	1600	1561	1497	1453	1449	1511	10- 20	558.4	806.1	59.4,59.4
30	447.2	476.4	443.3	380.9	335.3	344.8	372.8	378.3	20- 30	448.1	1254	92.4,92.4
40	32.41	33.23	22.90	32.45	28.77	46.65	49.99	52.45	30- 40	88.76	1343	98.9,98.9
50	0.3461	0.9693	0.4333	0.8913	0.2396	0.6481	0.4449	1.196	40- 50	9.205	1352	99.6,99.6
60	0	0.0000	0	0.0001	0	0.0000	0	0.0095	50- 60	0.1325	1352	99.6,99.6
70	0	0	0	0	0	0	0	0	60- 70	0.0000	1352	99.6,99.6
80	0	0	0	0	0	0	0	0	70- 80	0	1352	99.6,99.6
90	0	0	0	0	0	0	0	0	80- 90	0	1352	99.6,99.6
100	0	0	0	0	0	0	0	0	90-100	0	1352	99.6,99.6
110	0	0	0	0	0	0	0	0	100-110	0	1352	99.6,99.6
120	0	0	0	0	0	0	0	0	110-120	0	1352	99.6,99.6
130	0.0280	0.0684	0.1137	0.0896	0.1752	0.1535	0.1129	0.1205	120-130	0.0135	1352	99.6,99.6
140	0.8809	0.9106	0.9593	0.9814	1.101	1.083	1.032	1.010	130-140	0.3618	1353	99.6,99.6
150	2.551	2.572	2.649	2.676	2.777	2.747	2.684	2.629	140-150	1.093	1354	99.7,99.7
160	4.505	4.540	4.617	4.587	4.669	4.585	4.538	4.467	150-160	1.646	1355	99.8,99.8
170	6.411	6.364	6.382	6.375	6.590	6.513	6.464	6.395	160-170	1.531	1357	100,100
180	7.584	7.494	7.461	7.459	7.598	7.499	7.461	7.454	170-180	0.6598	1358	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

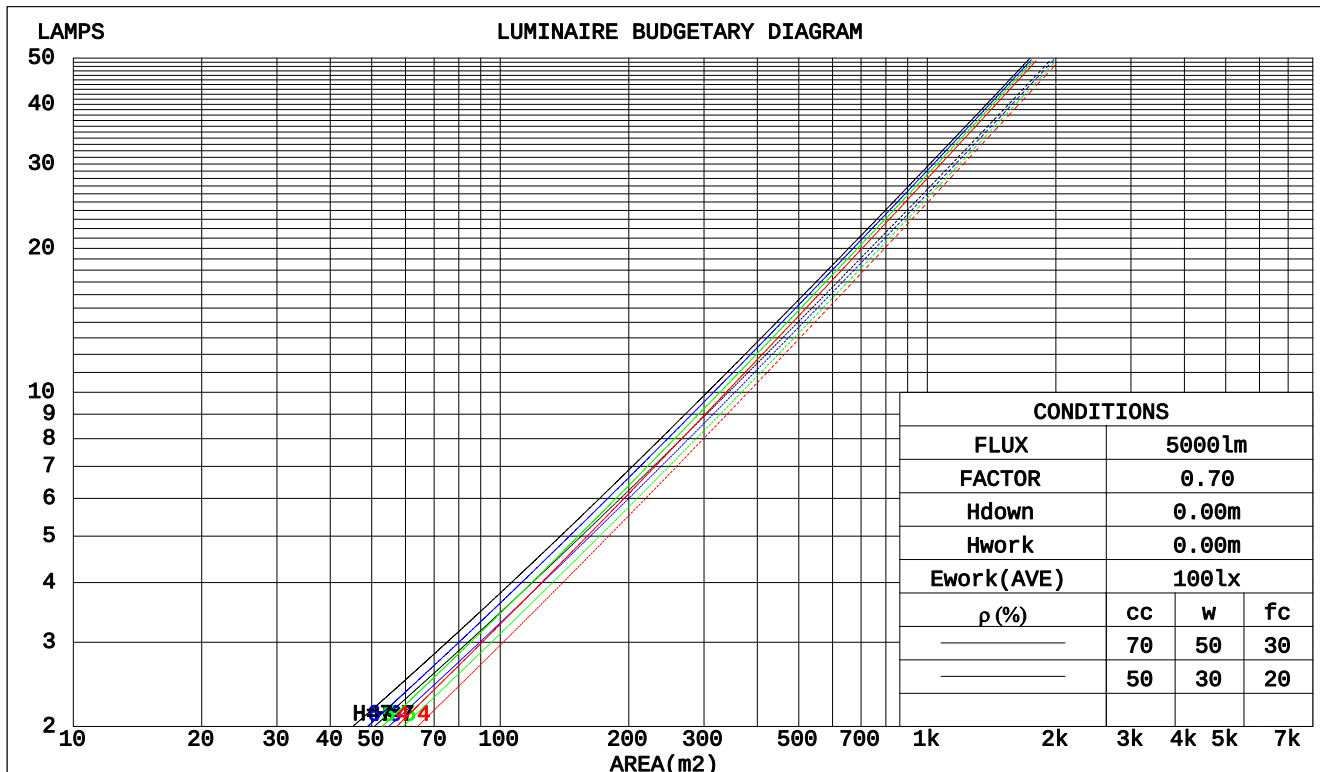
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: Dot12-3000k-RA90-48D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.00	.98	.98	.97	.95
2.0	1.06	1.02	.99	1.04	1.01	.98	1.01	.98	.96	.98	.96	.94	.95	.93	.92	.91
3.0	1.00	.96	.93	.99	.95	.92	.96	.93	.90	.94	.91	.89	.92	.89	.88	.86
4.0	.95	.91	.87	.94	.90	.87	.92	.88	.86	.90	.87	.85	.88	.86	.84	.82
5.0	.91	.86	.82	.90	.85	.82	.88	.84	.81	.86	.83	.80	.85	.82	.80	.78
6.0	.86	.81	.78	.86	.81	.78	.84	.80	.77	.83	.79	.77	.82	.79	.76	.75
7.0	.83	.78	.74	.82	.77	.74	.81	.77	.74	.80	.76	.73	.79	.75	.73	.72
8.0	.79	.74	.71	.78	.74	.71	.77	.73	.70	.76	.73	.70	.76	.72	.70	.68
9.0	.76	.71	.68	.75	.71	.67	.74	.70	.67	.74	.70	.67	.73	.69	.67	.66
10.0	.73	.68	.65	.72	.68	.65	.71	.67	.64	.71	.67	.64	.70	.67	.64	.63



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: Dot12-3000k-RA90-48D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION 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 Coefficients(WEC)										
0.0																	
1.0	.153	.087	.028	.147	.084	.027	.134	.077	.025	.122	.071	.023	.112	.065	.021		
2.0	.144	.079	.024	.139	.076	.024	.128	.071	.022	.118	.066	.021	.109	.062	.019		
3.0	.136	.072	.022	.131	.070	.021	.122	.066	.020	.114	.063	.019	.107	.059	.018		
4.0	.129	.067	.020	.125	.065	.019	.117	.062	.019	.110	.059	.018	.104	.056	.017		
5.0	.123	.062	.018	.119	.061	.018	.113	.059	.017	.106	.056	.017	.101	.054	.016		
6.0	.117	.059	.017	.114	.058	.017	.108	.055	.016	.103	.053	.016	.098	.051	.015		
7.0	.112	.055	.016	.109	.054	.015	.104	.053	.015	.099	.051	.015	.095	.049	.014		
8.0	.107	.052	.015	.105	.052	.015	.100	.050	.014	.096	.049	.014	.092	.047	.014		
9.0	.103	.050	.014	.101	.049	.014	.097	.048	.014	.093	.047	.013	.090	.045	.013		
10.0	.099	.047	.013	.097	.047	.013	.094	.046	.013	.090	.045	.013	.087	.044	.013		

ρ _{cc}	80%			70%			50%			30%			10%			0
ρ _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.193	.193	.193	.165	.165	.165	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.172	.161	.150	.148	.138	.129	.101	.095	.089	.058	.055	.052	.019	.018	.017	
2.0	.156	.136	.119	.133	.117	.103	.091	.081	.072	.053	.047	.042	.017	.015	.014	
3.0	.142	.116	.096	.122	.100	.083	.083	.070	.059	.048	.041	.035	.015	.013	.011	
4.0	.130	.101	.079	.112	.088	.069	.077	.061	.048	.044	.036	.029	.014	.012	.009	
5.0	.121	.089	.066	.104	.077	.058	.071	.054	.041	.041	.032	.024	.013	.010	.008	
6.0	.113	.080	.056	.097	.069	.049	.067	.048	.035	.039	.028	.021	.012	.009	.007	
7.0	.106	.072	.048	.091	.062	.042	.063	.044	.030	.036	.026	.018	.012	.008	.006	
8.0	.100	.065	.042	.086	.057	.036	.059	.040	.026	.035	.023	.015	.011	.008	.005	
9.0	.094	.060	.037	.081	.052	.032	.056	.037	.023	.033	.022	.014	.011	.007	.004	
10.0	.090	.055	.033	.077	.048	.028	.054	.034	.020	.031	.020	.012	.010	.007	.004	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

Uncorrected UGR Table

NAME: Dot12-3000k-RA90-48D						TYPE:					WEIGHT:				
DIM.:						SPEC.:					SERIAL No.:				
MFR.: VD						SUR.:					PROTECTION 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	0.7	1.5	0.9	1.6	1.8	-0.7	0.0	-0.5	0.2	0.4					
3H	0.5	1.2	0.8	1.4	1.6	-0.9	-0.2	-0.6	0.0	0.2					
4H	0.5	1.1	0.7	1.3	1.6	-1.0	-0.3	-0.7	-0.1	0.1					
6H	0.4	1.0	0.7	1.2	1.5	-1.1	-0.4	-0.8	-0.2	0.1					
8H	0.3	0.9	0.6	1.2	1.4	-1.1	-0.5	-0.8	-0.2	0.0					
12H	0.3	0.9	0.6	1.1	1.4	-1.2	-0.6	-0.8	-0.3	-0.0					
4H 2H	0.5	1.1	0.7	1.3	1.6	-1.0	-0.3	-0.7	-0.1	0.1					
3H	0.3	0.9	0.6	1.1	1.4	-1.2	-0.6	-0.8	-0.3	-0.0					
4H	0.2	0.7	0.5	1.0	1.3	-1.3	-0.7	-0.9	-0.4	-0.1					
6H	0.1	0.5	0.5	0.9	1.2	-1.4	-0.9	-1.0	-0.5	-0.2					
8H	0.0	0.5	0.4	0.8	1.2	-1.4	-1.0	-1.0	-0.6	-0.2					
12H	-0.0	0.4	0.4	0.7	1.1	-1.5	-1.1	-1.0	-0.7	-0.3					
8H 4H	0.0	0.5	0.4	0.8	1.2	-1.4	-1.0	-1.0	-0.6	-0.2					
6H	-0.1	0.3	0.3	0.7	1.1	-1.5	-1.2	-1.1	-0.8	-0.3					
8H	-0.1	0.2	0.3	0.6	1.0	-1.6	-1.3	-1.1	-0.8	-0.4					
12H	-0.2	0.1	0.3	0.5	1.0	-1.6	-1.4	-1.2	-0.9	-0.4					
12H 4H	-0.0	0.4	0.4	0.7	1.1	-1.5	-1.1	-1.0	-0.7	-0.3					
6H	-0.1	0.2	0.3	0.6	1.0	-1.6	-1.3	-1.1	-0.8	-0.4					
8H	-0.2	0.1	0.3	0.5	1.0	-1.6	-1.4	-1.2	-0.9	-0.4					
Variations with the observer position at spacings:															
S = 1.0H	+ 4.6 / -99.4					+ 4.0 / - 1.\$									
1.5H	+ 7.4 / -38.3					+ 6.7 / -28.9									
2.0H	+ 8.9 / - 1.\$					+ 9.0 / - 1.\$									

CIE Pub.117 Corrected 1358 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.1)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: Dot12-3000k-RA90-48D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

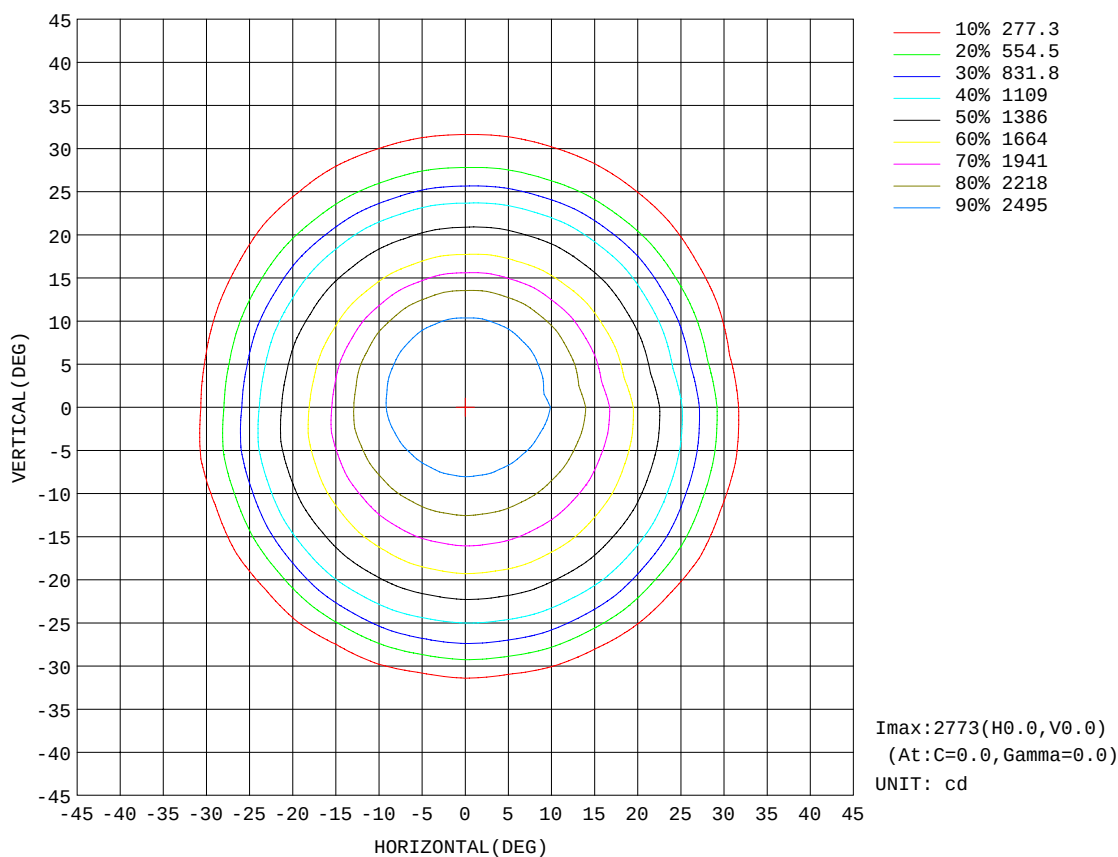
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	82	90	85	82	90	85	82	78
0.80	98	93	89	97	92	89	96	92	89	86
1.00	102	97	93	101	96	93	99	96	93	89
1.25	105	101	97	104	100	97	102	99	96	92
1.50	108	103	100	106	103	100	104	101	99	95
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	96
3.00	113	109	107	111	108	106	107	105	104	97
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	113	112	110	109	108	107	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: Dot12-3000k-RA90-48D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

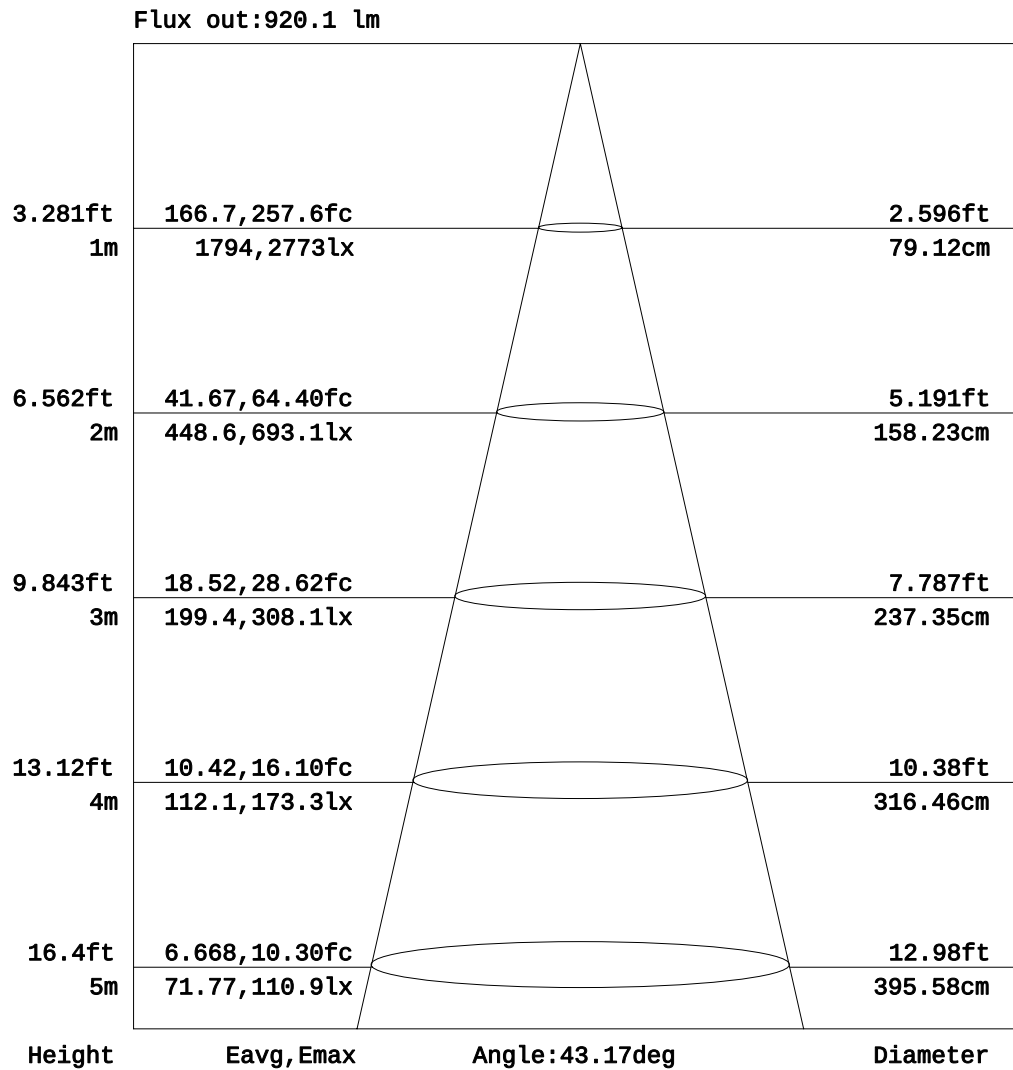


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

AAI Figure

NAME: Dot12-3000k-RA90-48D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:



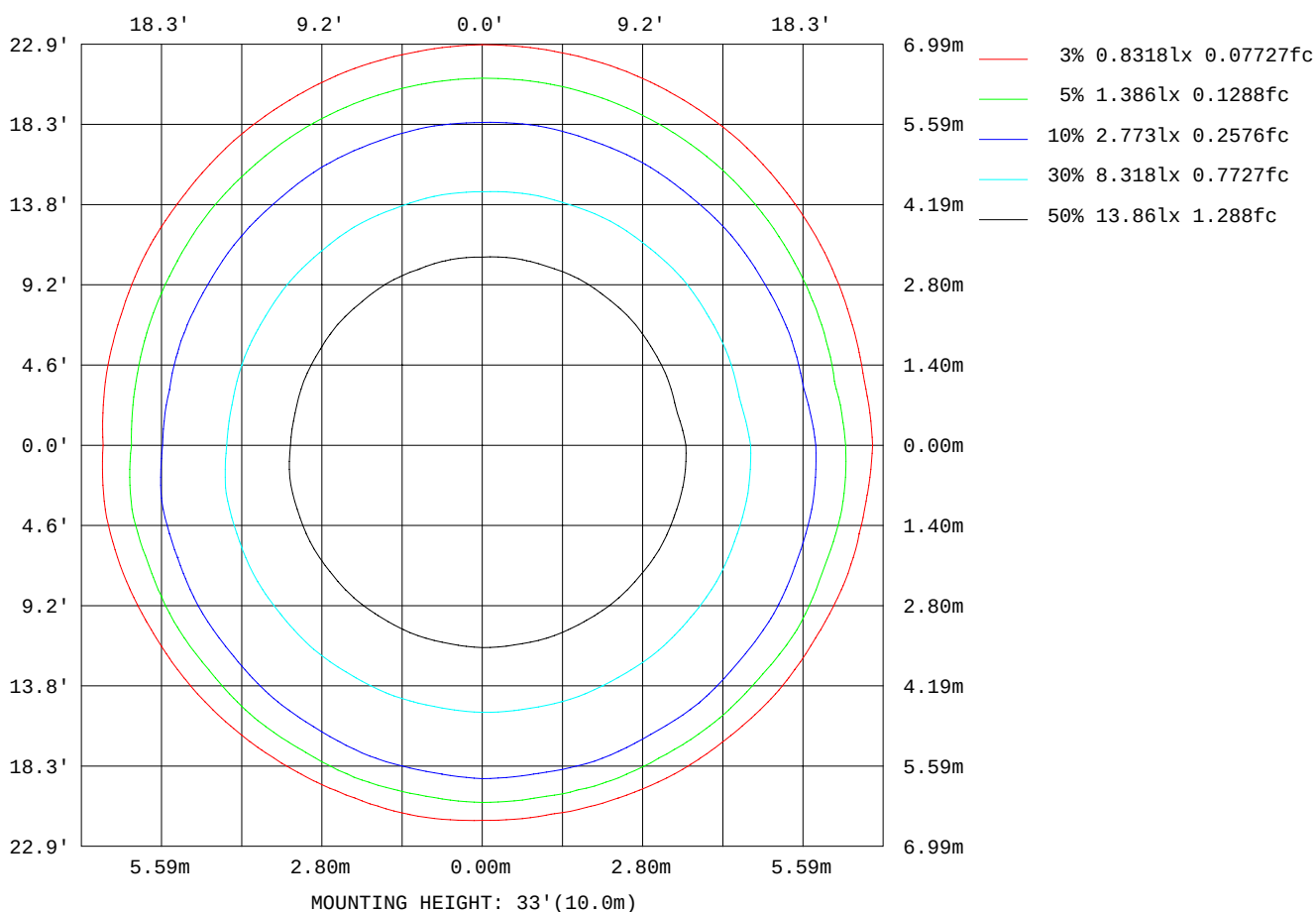
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME: Dot12-3000k-RA90-48D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

Average Luminance Table(CIBSE)

NAME: Dot12-3000k-RA90-48D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Bc	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	1	
Output of each lamp(initial lumens as specified)	F	1357.58	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.1	sq.m.
Angle to the downward vertical from light centre	Gamma	from data	deg

Table 1. Calculation parameters for determination of CIBSE LG3:1996 Average Luminance

G	C plane(deg)																		
deg	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	1	0	1	1	3	2	3	1	2	1	3	2	3	2	3	1	1	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 2. Average Luminance(cd/sq.m.) for defined C plane,Gamma angle

CIBSE Category	Gamma (deg)	Average Luminance		Patch Luminance	
		maximum calculated	specified maximum	maximum measured	specified maximum
Category 1	55 to 90	3	200	---	500
Category 2	65 to 90	0	200	---	500
Category 3	75 to 90	0	200	---	500

Table 3. Tabulation of Average and Patch Luminance(cd/sq.m.) for defined CIBSE categories

No match

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

Average Luminance Table(CIBSE)

NAME: Dot12-3000k-RA90-48D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Bc	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	1	
Output of each lamp(initial lumens as specified)	F	1357.58	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.1	sq.m.
Angle to the downward vertical from light centre	Gamma	from data	deg

Table 1. Calculation parameters for determination of CIBSE LG3:2001 Average Luminance

G deg	C plane(deg)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	1	0	1	1	3	2	3	1	2	1	3	2	3	2	3	1	1	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 2. Average Luminance(cd/sq.m.) for defined C plane,Gamma angle

range (deg)	Maximum measured	Average Luminance(cd/sq.m)			
		Maximum limit for screen type & software category used			
		Type I,II screen Some neg.s'ware	Type I,II screen Only pos.s'ware	Type III screen Some neg.s'ware	Type III screen Only pos.s'ware
55 to 90	3	1000	1500	200	500
65 to 90	0	1000	1500	200	500

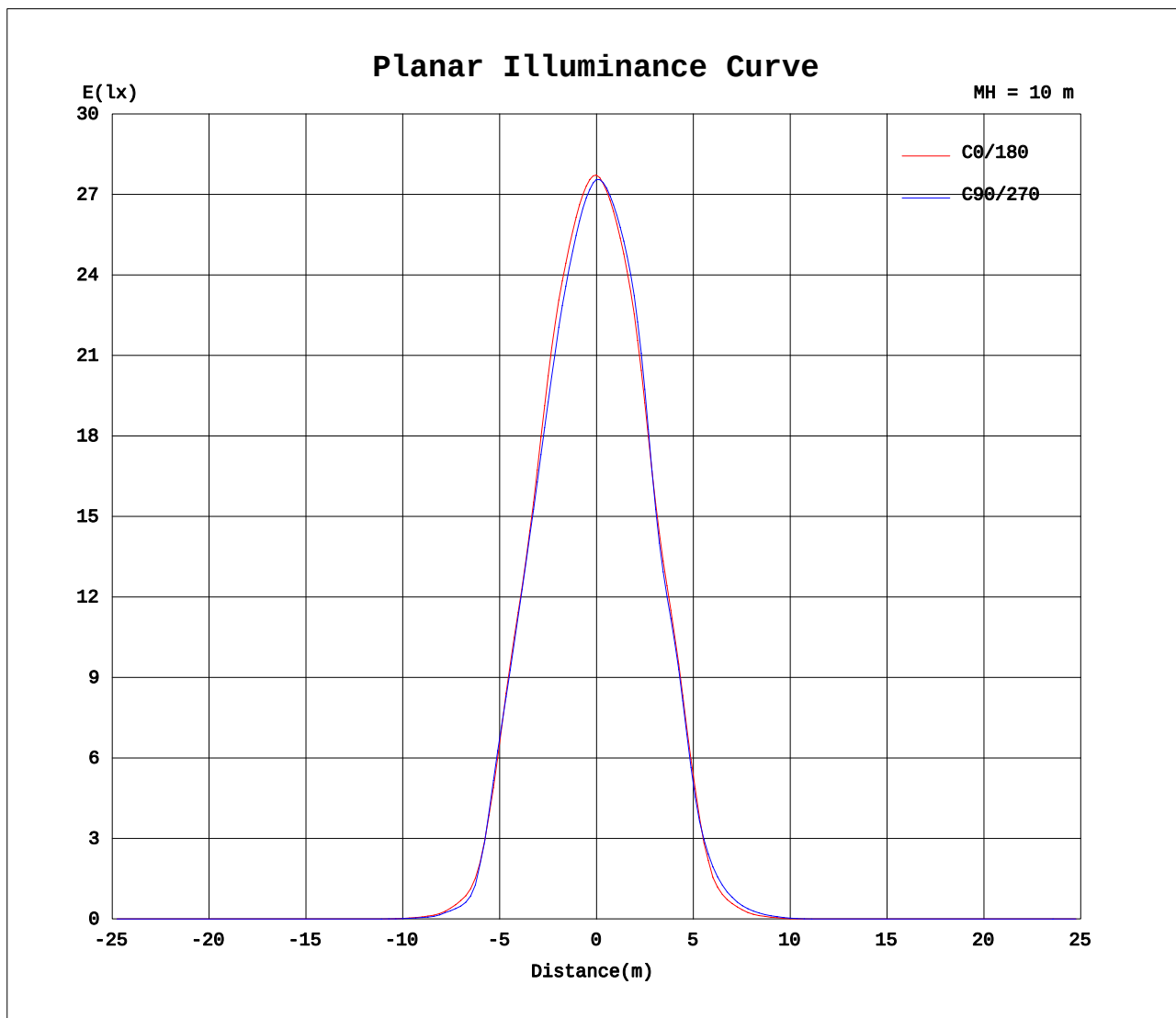
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

The luminaire satisfies the specified luminance criteria for
Negative Software with Type I & II Screen(Good to Moderate treatment).

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: Dot12-3000k-RA90-48D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(°)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	2773	2770	2766	2764	2762	2760	2759	2758	2757	2756	2755	2754	2753	2753	2752	2751	2750	2750	2773
5	2692	2684	2672	2665	2655	2650	2640	2638	2631	2631	2628	2631	2629	2634	2634	2641	2644	2653	2668
10	2490	2474	2452	2439	2421	2413	2400	2399	2391	2393	2388	2392	2390	2400	2404	2418	2426	2442	2449
15	2122	2117	2096	2088	2068	2060	2044	2043	2031	2032	2023	2027	2019	2025	2016	2024	2016	2025	1995
20	1613	1627	1625	1634	1627	1628	1616	1615	1600	1600	1587	1586	1572	1569	1554	1549	1532	1527	1497
25	1131	1150	1148	1160	1150	1151	1133	1133	1115	1112	1095	1098	1085	1085	1065	1060	1035	1027	954
30	447	472	466	485	471	481	462	468	442	443	416	414	389	390	371	376	362	370	335
35	127	117	110	107	101	98.2	93.4	90.1	87.4	88.6	89.2	92.6	93.9	97.3	98.7	102	104	110	105
40	32.4	32.7	32.3	35.9	33.8	32.7	29.4	27.4	23.7	22.9	23.6	27.9	30.5	32.6	32.4	34.4	32.8	32.5	28.8
45	6.57	7.36	8.83	9.27	9.16	9.03	7.44	6.50	5.71	5.42	5.39	6.25	7.58	9.70	9.74	8.94	7.56	5.73	4.11
50	0.35	0.32	0.39	0.55	0.91	1.03	0.72	0.52	0.47	0.43	0.47	0.49	0.62	0.95	0.83	0.50	0.37	0.28	0.24
55	0.05	0.00	0.09	0.07	0.17	0.14	0.18	0.08	0.14	0.08	0.16	0.09	0.18	0.14	0.17	0.08	0.09	0.00	0.00
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.03	0.07	0.03	0.08	0.04	0.09	0.06	0.10	0.07	0.11	0.07	0.12	0.07	0.11	0.07	0.10	0.05	0.09	0.18
135	0.34	0.38	0.34	0.39	0.36	0.41	0.38	0.42	0.39	0.43	0.40	0.44	0.41	0.44	0.41	0.44	0.40	0.43	0.52
140	0.88	0.91	0.88	0.92	0.89	0.93	0.90	0.95	0.93	0.96	0.94	0.98	0.96	1.00	0.97	0.99	0.97	0.99	1.10
145	1.63	1.65	1.63	1.65	1.64	1.66	1.65	1.69	1.68	1.71	1.70	1.74	1.72	1.75	1.73	1.77	1.73	1.77	1.87
150	2.55	2.58	2.55	2.57	2.56	2.59	2.57	2.61	2.60	2.65	2.64	2.67	2.65	2.68	2.67	2.69	2.67	2.69	2.78
155	3.53	3.57	3.54	3.57	3.55	3.58	3.57	3.61	3.61	3.65	3.64	3.66	3.65	3.67	3.65	3.66	3.63	3.64	3.73
160	4.50	4.55	4.52	4.55	4.52	4.56	4.55	4.58	4.57	4.62	4.60	4.62	4.59	4.61	4.57	4.58	4.55	4.56	4.67
165	5.49	5.51	5.48	5.50	5.47	5.50	5.47	5.50	5.49	5.53	5.51	5.53	5.50	5.52	5.49	5.51	5.49	5.52	5.67
170	6.41	6.43	6.38	6.41	6.35	6.38	6.33	6.37	6.34	6.38	6.35	6.39	6.35	6.39	6.36	6.41	6.39	6.45	6.59
175	7.16	7.20	7.14	7.16	7.07	7.11	7.05	7.10	7.05	7.10	7.06	7.11	7.07	7.12	7.08	7.14	7.12	7.21	7.33
180	7.58	7.58	7.54	7.54	7.49	7.49	7.47	7.47	7.46	7.46	7.45	7.46	7.45	7.46	7.46	7.47	7.48	7.51	7.60

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: Dot12-3000k-RA90-48D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(°)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
γ (°)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	2770	2766	2764	2762	2760	2759	2758	2757	2756	2755	2754	2753	2753	2752	2751	2750	2750		
5	2668	2673	2673	2679	2682	2688	2689	2693	2692	2693	2691	2690	2685	2682	2674	2670	2660		
10	2453	2468	2475	2489	2495	2508	2510	2518	2516	2520	2514	2514	2503	2499	2486	2477	2458		
15	1982	1991	1985	2002	1997	2013	2010	2029	2025	2045	2045	2068	2063	2079	2071	2076	2060		
20	1477	1474	1460	1458	1447	1450	1442	1450	1449	1463	1470	1492	1501	1521	1523	1540	1542		
25	929	934	912	917	905	918	907	926	924	949	959	994	998	1026	1026	1045	1041		
30	321	336	330	343	347	360	362	372	373	381	376	382	375	381	375	384	379		
35	108	113	117	123	132	135	142	144	148	148	148	146	144	137	133	125	116		
40	30.3	36.1	41.7	45.7	47.6	51.0	51.3	51.6	50.0	52.2	53.7	55.2	53.2	51.7	47.0	38.6	31.1		
45	4.17	6.16	8.19	12.4	14.3	14.3	12.0	10.9	9.89	11.0	12.5	15.7	16.9	15.7	10.6	7.75	5.29		
50	0.29	0.27	0.41	0.59	0.71	0.61	0.48	0.39	0.44	0.43	0.54	0.70	1.25	1.14	0.56	0.34	0.32		
55	0.03	0.01	0.10	0.08	0.17	0.13	0.15	0.06	0.10	0.07	0.15	0.17	0.26	0.18	0.13	0.03	0.05		
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
130	0.12	0.17	0.13	0.18	0.13	0.17	0.12	0.15	0.11	0.15	0.10	0.15	0.10	0.14	0.09	0.14	0.09		
135	0.49	0.53	0.49	0.53	0.49	0.52	0.49	0.52	0.47	0.50	0.46	0.49	0.44	0.48	0.43	0.47	0.42		
140	1.07	1.10	1.08	1.10	1.07	1.09	1.07	1.08	1.03	1.06	1.02	1.04	1.00	1.02	0.98	1.00	0.98		
145	1.84	1.87	1.84	1.87	1.83	1.84	1.82	1.83	1.79	1.81	1.77	1.78	1.74	1.76	1.72	1.73	1.71		
150	2.76	2.77	2.75	2.76	2.73	2.74	2.71	2.72	2.68	2.69	2.66	2.65	2.62	2.64	2.61	2.63	2.60		
155	3.68	3.71	3.67	3.69	3.65	3.68	3.64	3.66	3.62	3.63	3.58	3.59	3.55	3.57	3.55	3.57	3.54		
160	4.61	4.62	4.59	4.60	4.57	4.59	4.56	4.58	4.54	4.54	4.50	4.50	4.46	4.48	4.44	4.48	4.45		
165	5.60	5.60	5.56	5.58	5.55	5.58	5.54	5.57	5.52	5.53	5.47	5.48	5.43	5.45	5.41	5.43	5.41		
170	6.54	6.55	6.50	6.53	6.49	6.53	6.49	6.52	6.46	6.49	6.43	6.44	6.39	6.40	6.36	6.38	6.35		
175	7.28	7.28	7.22	7.26	7.20	7.25	7.20	7.24	7.18	7.21	7.15	7.19	7.14	7.17	7.12	7.18	7.13		
180	7.58	7.58	7.51	7.51	7.48	7.48	7.47	7.47	7.46	7.46	7.45	7.46	7.45	7.46	7.47	7.48	7.51		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks: