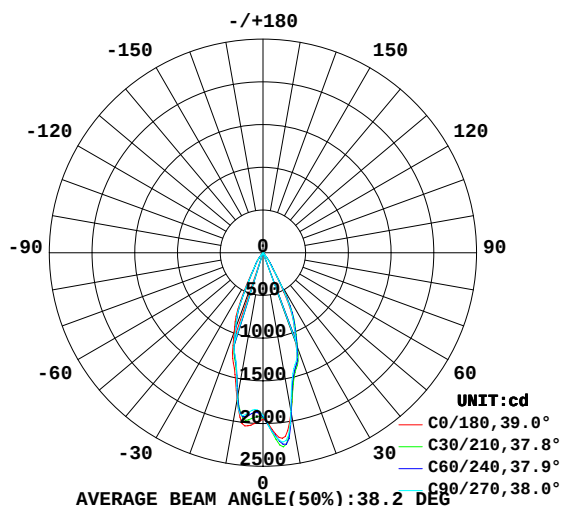


LUMINAIRE PHOTOMETRIC TEST REPORT

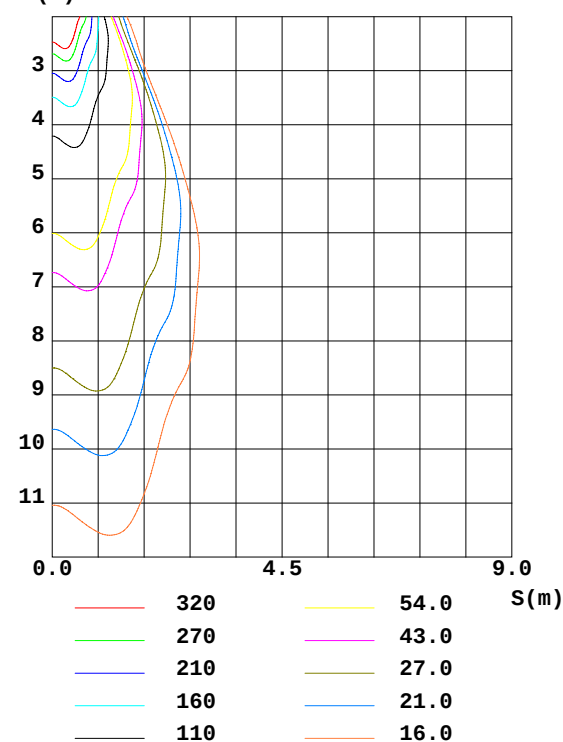
NAME: CL-Dot12-uls 3000K-Ra90-12w-48D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 76.27 lm/W			
MODEL		Imax(cd)	2296	S/MH(C0/180)	0.71
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	0.72
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	970.17	η UP, DN(C0-180)	0.2, 53.4
NOMINAL FLUX(lm)	970.175	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 46.2
LAMPS INSIDE	1	η up(%)	0.4	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	24	η down(%)	99.6	CIBSE SHR MAX	0.65

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:0
Test Date:2022-04-25

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	1896	1911	1886	1779	1752	1701	1742	1795	0- 10	190.0	190.0	19.6,19.6
20	1133	1183	1139	1075	988.0	930.4	935.3	1008	10- 20	380.6	570.5	58.8,58.8
30	330.3	381.4	341.5	284.2	222.8	210.9	218.0	247.0	20- 30	304.5	875.1	90.2,90.2
40	44.13	44.24	40.80	36.81	38.60	37.35	37.79	42.26	30- 40	82.44	957.5	98.7,98.7
50	1.360	1.334	1.128	0.8477	0.6657	0.6444	0.8323	1.080	40- 50	8.789	966.3	99.6,99.6
60	0	0.0000	0	0	0	0	0	0	50- 60	0.1735	966.5	99.6,99.6
70	0	0	0	0	0	0	0	0	60- 70	0.0000	966.5	99.6,99.6
80	0	0	0	0	0	0	0	0	70- 80	0	966.5	99.6,99.6
90	0	0	0	0	0	0	0	0	80- 90	0	966.5	99.6,99.6
100	0	0	0	0	0	0	0	0	90-100	0	966.5	99.6,99.6
110	0	0	0	0	0	0	0	0	100-110	0	966.5	99.6,99.6
120	0	0	0	0	0	0	0	0	110-120	0	966.5	99.6,99.6
130	0	0.0143	0.0428	0.0355	0.1232	0.1180	0.0892	0.0779	120-130	0.0074	966.5	99.6,99.6
140	0.5793	0.5521	0.5955	0.6511	0.7940	0.8213	0.7635	0.7009	130-140	0.2430	966.7	99.6,99.6
150	1.731	1.652	1.705	1.803	1.989	2.032	1.962	1.843	140-150	0.7502	967.5	99.7,99.7
160	3.203	3.098	3.130	3.216	3.418	3.410	3.349	3.202	150-160	1.156	968.6	99.8,99.8
170	4.543	4.436	4.456	4.497	4.749	4.705	4.619	4.519	160-170	1.092	969.7	100,100
180	5.347	5.269	5.219	5.198	5.370	5.276	5.219	5.198	170-180	0.4641	970.2	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

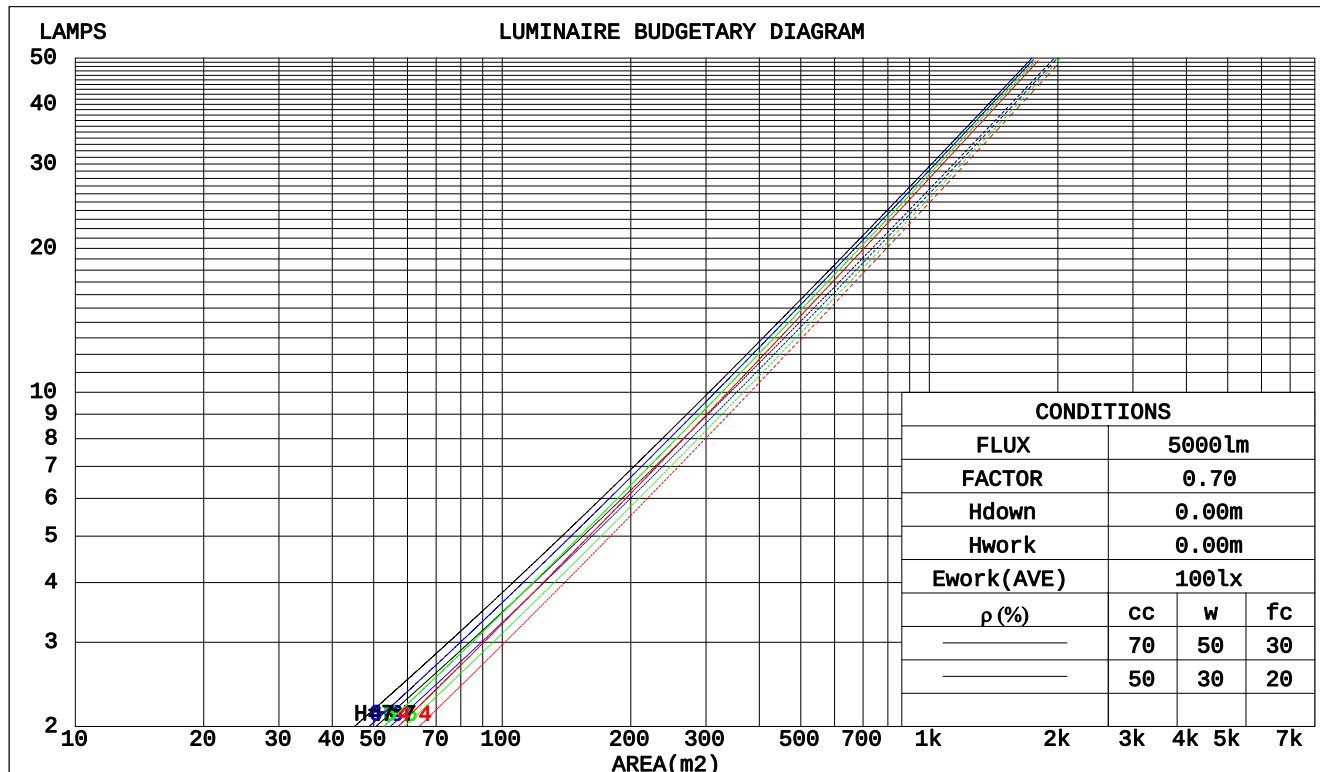
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-04-25

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: Dot12-S-3000k-RA90-48D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	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	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	.90
3.0	1.00	.96	.93	.99	.95	.92	.96	.93	.90	.94	.91	.89	.92	.89	.88	.86
4.0	.95	.90	.87	.94	.90	.86	.92	.88	.85	.90	.87	.84	.88	.86	.83	.82
5.0	.90	.86	.82	.90	.85	.82	.88	.84	.81	.86	.83	.80	.85	.82	.80	.78
6.0	.86	.81	.78	.86	.81	.77	.84	.80	.77	.83	.79	.76	.81	.78	.76	.75
7.0	.82	.77	.74	.82	.77	.74	.81	.76	.73	.79	.76	.73	.78	.75	.73	.71
8.0	.79	.74	.71	.78	.74	.70	.77	.73	.70	.76	.73	.70	.75	.72	.69	.68
9.0	.76	.71	.67	.75	.70	.67	.74	.70	.67	.73	.70	.67	.73	.69	.67	.65
10.0	.73	.68	.65	.72	.68	.64	.71	.67	.64	.71	.67	.64	.70	.66	.64	.63



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-04-25

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-S-3000k-RA90-48D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.154	.087	.028	.147	.084	.027	.134	.077	.025	.123	.071	.023	.112	.065	.021		
2.0	.145	.079	.024	.139	.077	.024	.129	.072	.022	.119	.067	.021	.110	.062	.020		
3.0	.137	.073	.022	.132	.071	.021	.123	.067	.020	.115	.063	.019	.107	.059	.018		
4.0	.129	.067	.020	.125	.066	.019	.118	.062	.019	.111	.059	.018	.104	.057	.017		
5.0	.123	.063	.018	.120	.061	.018	.113	.059	.017	.107	.056	.017	.101	.054	.016		
6.0	.117	.059	.017	.114	.058	.017	.109	.056	.016	.103	.054	.016	.098	.052	.015		
7.0	.112	.055	.016	.110	.055	.016	.105	.053	.015	.100	.051	.015	.095	.050	.015		
8.0	.108	.053	.015	.105	.052	.015	.101	.050	.014	.096	.049	.014	.093	.047	.014		
9.0	.103	.050	.014	.101	.049	.014	.097	.048	.014	.093	.047	.013	.090	.046	.013		
10.0	.099	.048	.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	.160	.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	.058	.048	.041	.034	.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	.013	.009	.007		
7.0	.106	.072	.048	.091	.062	.042	.063	.044	.030	.037	.026	.018	.012	.008	.006		
8.0	.100	.065	.042	.086	.057	.036	.059	.040	.026	.035	.023	.015	.011	.008	.005		
9.0	.095	.060	.037	.081	.052	.032	.056	.037	.023	.033	.022	.014	.011	.007	.004		
10.0	.090	.055	.032	.078	.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:0
Test Date:2022-04-25

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:

Uncorrected UGR Table

NAME: Dot12-S-3000k-RA90-48D						TYPE:					WEIGHT:				
DIM.:						SPEC.:					SERIAL No.:				
MFR.: 0						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	2.4	3.1	2.6	3.3	3.5	1.9	2.7	2.2	2.9	3.0					
3H	2.2	2.9	2.5	3.1	3.3	1.8	2.5	2.0	2.7	2.9					
4H	2.1	2.8	2.4	3.0	3.2	1.7	2.4	2.0	2.6	2.8					
6H	2.0	2.7	2.3	2.9	3.2	1.6	2.2	1.9	2.5	2.7					
8H	2.0	2.6	2.3	2.9	3.1	1.6	2.2	1.9	2.4	2.7					
12H	1.9	2.5	2.3	2.8	3.1	1.5	2.1	1.8	2.4	2.6					
4H 2H	2.1	2.8	2.4	3.0	3.2	1.7	2.4	2.0	2.6	2.8					
3H	1.9	2.5	2.3	2.8	3.1	1.5	2.1	1.8	2.4	2.6					
4H	1.8	2.4	2.2	2.7	3.0	1.4	2.0	1.8	2.3	2.6					
6H	1.7	2.2	2.1	2.6	2.9	1.3	1.8	1.7	2.1	2.5					
8H	1.7	2.1	2.1	2.5	2.9	1.3	1.7	1.7	2.1	2.4					
12H	1.6	2.0	2.1	2.4	2.8	1.2	1.6	1.6	2.0	2.4					
8H 4H	1.7	2.1	2.1	2.5	2.9	1.3	1.7	1.7	2.1	2.4					
6H	1.6	1.9	2.0	2.3	2.8	1.2	1.5	1.6	1.9	2.3					
8H	1.5	1.8	2.0	2.3	2.7	1.1	1.4	1.5	1.8	2.3					
12H	1.5	1.7	1.9	2.2	2.7	1.0	1.3	1.5	1.8	2.2					
12H 4H	1.6	2.0	2.1	2.4	2.8	1.2	1.6	1.6	2.0	2.4					
6H	1.5	1.8	2.0	2.3	2.7	1.1	1.4	1.5	1.8	2.3					
8H	1.5	1.7	1.9	2.2	2.7	1.0	1.3	1.5	1.8	2.2					
Variations with the observer position at spacings:															
S = 1.0H	+ 4.5 / -50.9					+ 4.4 / -40.3									
1.5H	+ 7.3 / -36.8					+ 7.2 / -30.0									
2.0H	+ 9.3 / - 1.\$					+ 8.8 / - 1.\$									

CIE Pub.117 Corrected 970.2 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.1)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-04-25

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-S-3000k-RA90-48D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

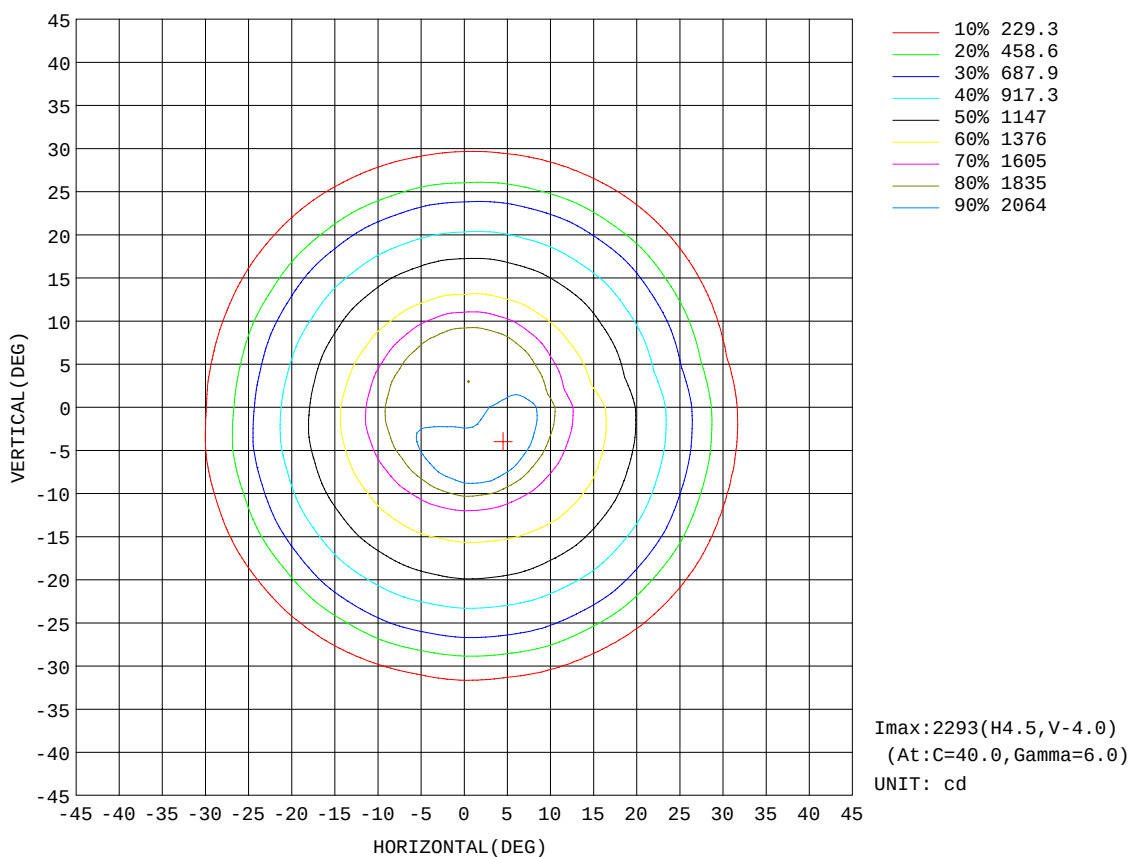
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	91	85	82	90	85	82	90	85	81	78
0.80	98	93	89	97	92	89	96	92	89	85
1.00	102	97	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	108	103	100	106	103	100	104	101	99	94
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	106	104	106	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: 0
Test Date: 2022-04-25

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-S-3000k-RA90-48D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

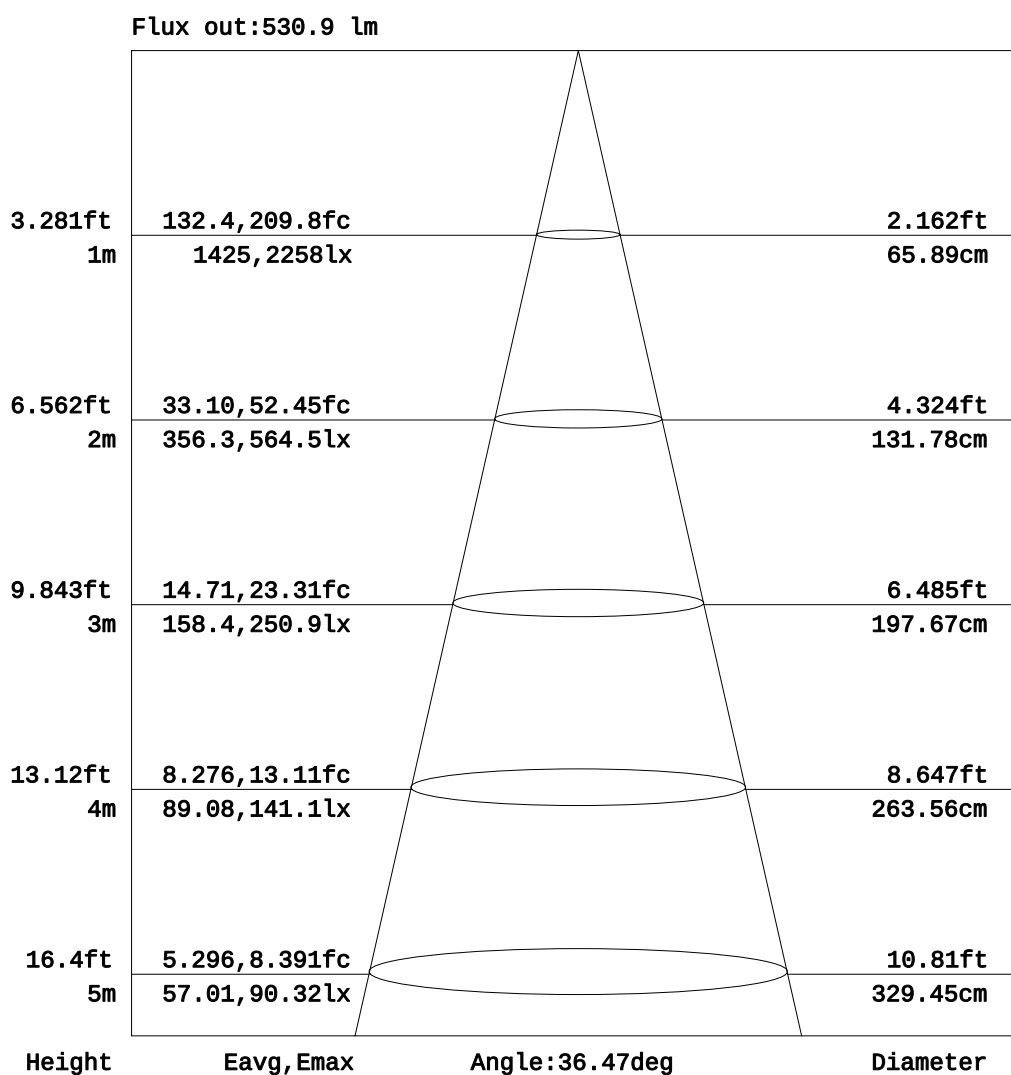


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-04-25

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-S-3000k-RA90-48D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:



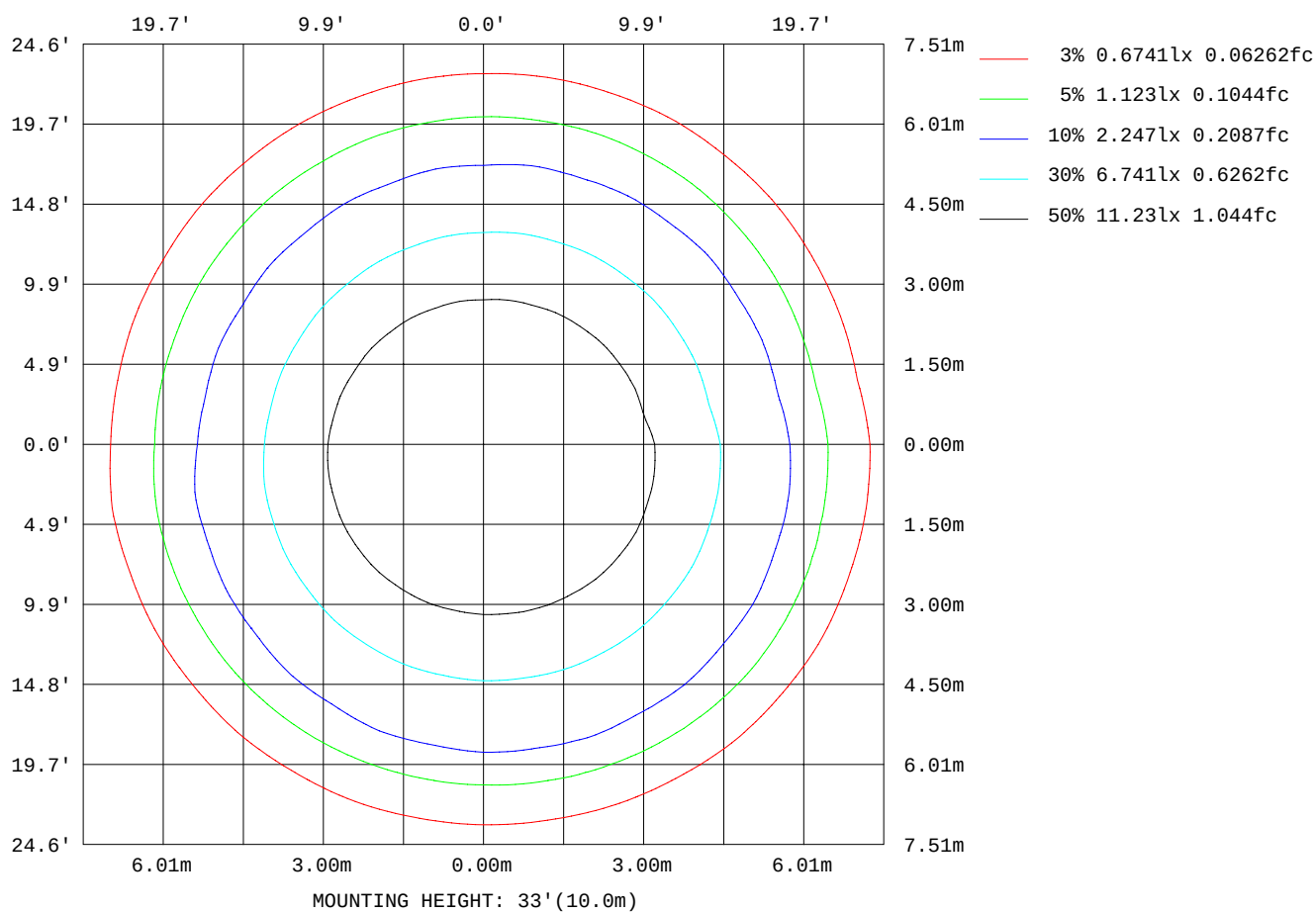
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-04-25

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-S-3000k-RA90-48D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-04-25

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-S-3000k-RA90-48D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	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	970.175	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	2	1	2	1	3	3	4	3	3	2	2	2	2	1	2	1	2	1	1
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	4	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:0
Test Date:2022-04-25

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-S-3000k-RA90-48D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	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	970.175	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	C plane(deg)																		
deg	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	2	1	2	1	3	3	4	3	3	2	2	2	2	1	2	1	2	1	1
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	4	1000	1500	200	500
65 to 90	0	1000	1500	200	500

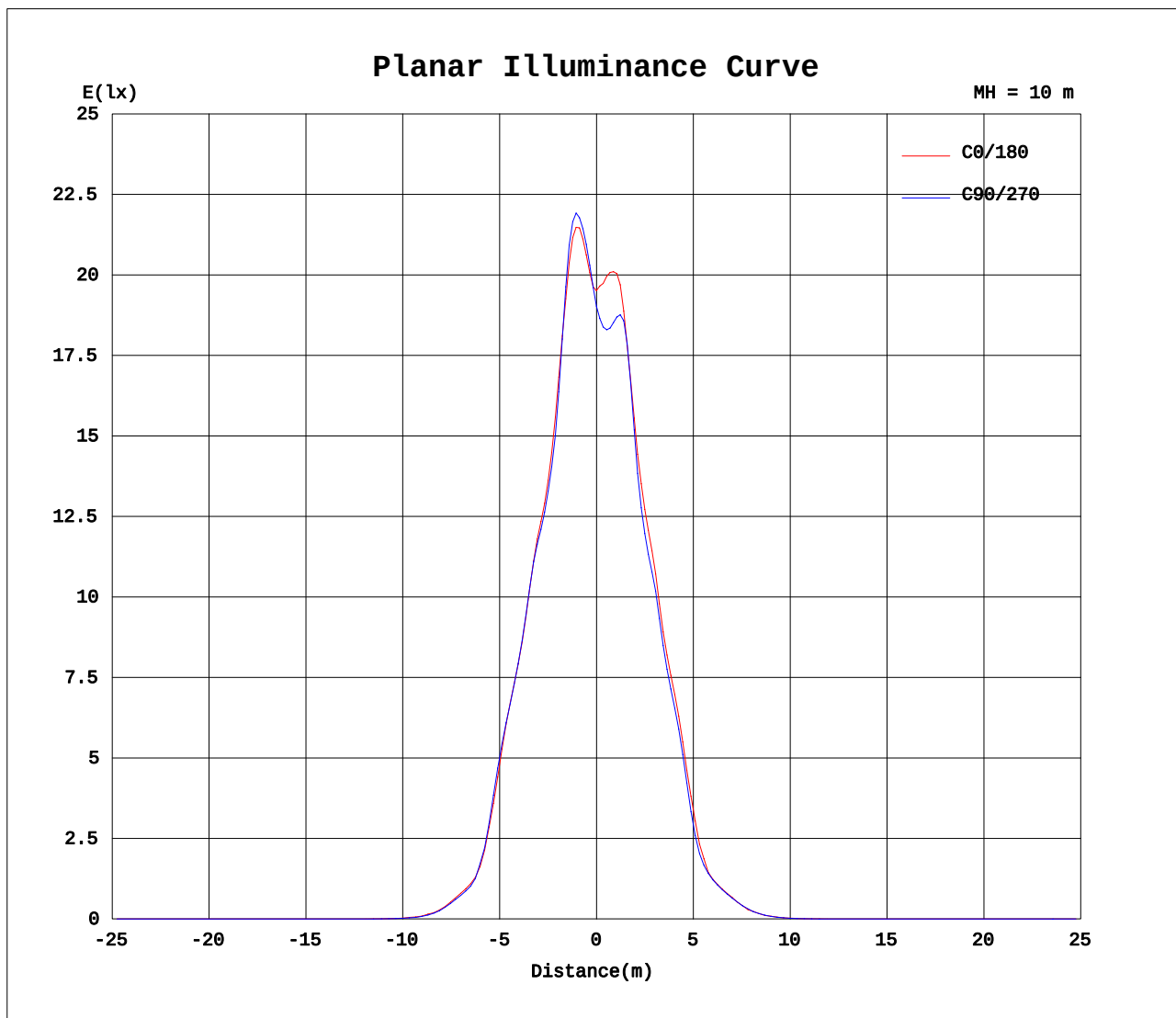
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

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:0
Test Date:2022-04-25

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: 0
Test Date: 2022-04-25

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-S-3000k-RA90-48D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	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	1951	1944	1939	1932	1928	1922	1919	1912	1911	1903	1903	1897	1898	1893	1895	1892	1894	1895	1951
5	2171	2207	2243	2259	2260	2239	2214	2175	2187	2203	2218	2217	2190	2146	2107	2071	2040	2009	2033
10	1896	1900	1889	1902	1900	1922	1913	1915	1892	1886	1845	1825	1793	1788	1769	1772	1762	1768	1752
15	1433	1444	1446	1452	1445	1443	1429	1421	1407	1403	1393	1394	1387	1383	1371	1367	1355	1348	1339
20	1133	1153	1165	1184	1182	1185	1169	1163	1146	1139	1121	1114	1098	1088	1062	1047	1025	1013	988
25	814	833	842	857	855	857	845	840	825	818	804	797	779	766	738	722	690	675	620
30	330	356	362	383	378	385	369	370	349	341	317	325	292	298	271	275	252	245	223
35	146	148	151	152	153	149	145	140	137	135	133	134	132	132	130	130	127	128	122
40	44.1	43.8	43.2	44.4	43.7	44.7	43.4	43.5	41.4	40.8	38.5	37.9	36.2	36.7	36.9	38.6	40.1	42.7	38.6
45	8.59	8.55	8.12	8.32	7.76	7.73	7.39	7.51	7.16	6.92	6.45	6.48	6.06	6.07	6.05	6.81	7.59	8.36	8.33
50	1.36	1.38	1.37	1.35	1.35	1.32	1.27	1.21	1.20	1.13	1.00	0.94	0.91	0.85	0.84	0.99	1.01	1.12	0.67
55	0.12	0.08	0.13	0.08	0.18	0.15	0.21	0.15	0.20	0.12	0.14	0.09	0.12	0.07	0.13	0.08	0.13	0.08	0.07
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	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	0.00	0.03	0.00	0.03	0.00	0.03	0.00	0.03	0.00	0.04	0.00	0.05	0.00	0.06	0.01	0.06	0.02	0.07	0.12
135	0.21	0.25	0.19	0.23	0.19	0.23	0.19	0.23	0.20	0.25	0.21	0.27	0.24	0.29	0.25	0.31	0.28	0.33	0.38
140	0.58	0.60	0.55	0.58	0.53	0.57	0.53	0.58	0.55	0.60	0.57	0.63	0.60	0.66	0.64	0.69	0.68	0.73	0.79
145	1.09	1.11	1.05	1.06	1.02	1.04	1.01	1.05	1.03	1.08	1.07	1.12	1.11	1.17	1.16	1.22	1.20	1.26	1.34
150	1.73	1.73	1.67	1.69	1.64	1.67	1.63	1.67	1.65	1.70	1.69	1.75	1.75	1.80	1.80	1.87	1.86	1.92	1.99
155	2.46	2.47	2.40	2.40	2.35	2.37	2.34	2.37	2.36	2.41	2.40	2.46	2.46	2.51	2.52	2.58	2.57	2.62	2.71
160	3.20	3.21	3.14	3.14	3.08	3.11	3.08	3.11	3.09	3.13	3.12	3.18	3.16	3.22	3.21	3.27	3.26	3.31	3.42
165	3.92	3.92	3.84	3.86	3.80	3.82	3.77	3.81	3.78	3.83	3.81	3.87	3.85	3.91	3.90	3.95	3.94	3.99	4.12
170	4.54	4.56	4.47	4.49	4.43	4.45	4.39	4.44	4.40	4.46	4.42	4.48	4.45	4.51	4.49	4.56	4.54	4.61	4.75
175	5.04	5.06	4.98	5.01	4.94	4.97	4.90	4.95	4.91	4.96	4.91	4.97	4.92	4.98	4.94	5.01	4.99	5.06	5.20
180	5.35	5.35	5.31	5.31	5.27	5.27	5.24	5.24	5.22	5.22	5.21	5.21	5.20	5.21	5.19	5.21	5.20	5.24	5.37

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-04-25

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-S-3000k-RA90-48D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	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	1944	1939	1932	1928	1922	1919	1912	1911	1903	1903	1897	1898	1893	1895	1892	1894	1895		
5	2005	1983	1964	1941	1926	1909	1895	1880	1873	1867	1874	1882	1904	1933	1978	2027	2078		
10	1728	1719	1698	1704	1697	1714	1717	1738	1742	1766	1771	1793	1790	1800	1791	1805	1804		
15	1316	1304	1284	1279	1267	1265	1256	1258	1257	1268	1275	1295	1307	1328	1340	1361	1372		
20	964	955	938	935	926	927	923	932	935	951	960	982	995	1021	1031	1052	1059		
25	587	577	552	554	542	550	545	563	567	596	614	649	667	696	708	734	743		
30	218	214	212	210	212	212	214	214	218	222	228	234	243	251	258	283	277		
35	119	119	116	118	116	116	116	118	118	121	123	127	128	131	131	133	133		
40	37.2	37.8	36.9	37.7	37.0	37.7	37.2	38.2	37.8	39.5	40.0	41.6	41.5	43.0	42.3	42.2	40.7		
45	8.24	8.38	8.37	8.29	8.04	7.90	7.49	7.61	7.44	7.64	7.74	8.09	8.07	8.19	7.91	7.55	7.11		
50	0.55	0.58	0.54	0.65	0.64	0.79	0.72	0.90	0.83	0.93	0.96	1.08	1.04	1.12	1.12	1.10	1.07		
55	0.12	0.07	0.14	0.10	0.16	0.11	0.17	0.12	0.16	0.09	0.12	0.08	0.13	0.08	0.12	0.07	0.10		
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	0.09	0.13	0.09	0.14	0.09	0.14	0.09	0.13	0.09	0.12	0.07	0.10	0.06	0.09	0.05	0.08	0.04		
135	0.35	0.41	0.37	0.41	0.38	0.42	0.37	0.40	0.35	0.38	0.32	0.35	0.30	0.34	0.28	0.31	0.26		
140	0.77	0.82	0.80	0.84	0.80	0.84	0.79	0.81	0.76	0.78	0.73	0.75	0.69	0.71	0.66	0.68	0.63		
145	1.32	1.37	1.35	1.39	1.35	1.38	1.35	1.36	1.31	1.32	1.26	1.27	1.21	1.22	1.16	1.17	1.13		
150	1.98	2.04	2.02	2.05	2.02	2.05	2.00	2.01	1.96	1.97	1.91	1.90	1.84	1.84	1.79	1.79	1.75		
155	2.69	2.74	2.72	2.76	2.73	2.75	2.72	2.73	2.67	2.67	2.60	2.61	2.54	2.54	2.47	2.48	2.44		
160	3.38	3.42	3.39	3.43	3.39	3.42	3.38	3.39	3.35	3.34	3.27	3.27	3.20	3.20	3.15	3.16	3.11		
165	4.08	4.12	4.08	4.13	4.08	4.11	4.07	4.08	4.02	4.04	3.96	3.96	3.89	3.89	3.84	3.85	3.80		
170	4.70	4.74	4.69	4.73	4.68	4.71	4.66	4.69	4.62	4.64	4.57	4.58	4.51	4.53	4.47	4.49	4.44		
175	5.13	5.17	5.11	5.16	5.09	5.14	5.07	5.11	5.03	5.07	5.00	5.03	4.96	5.00	4.94	4.99	4.94		
180	5.34	5.34	5.29	5.29	5.26	5.26	5.24	5.24	5.22	5.22	5.21	5.21	5.20	5.20	5.20	5.21	5.24		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-04-25

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: