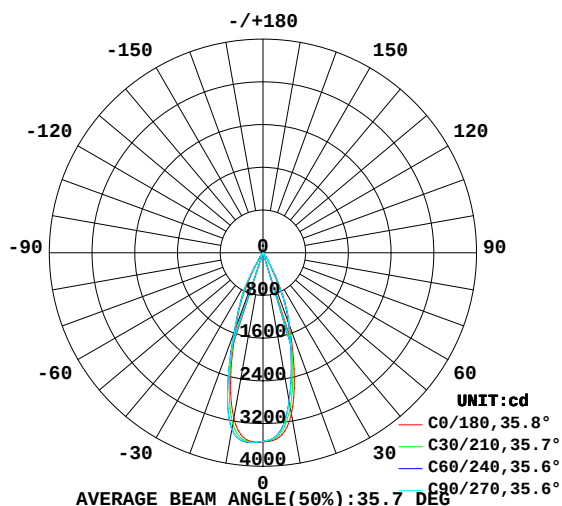


LUMINAIRE PHOTOMETRIC TEST REPORT

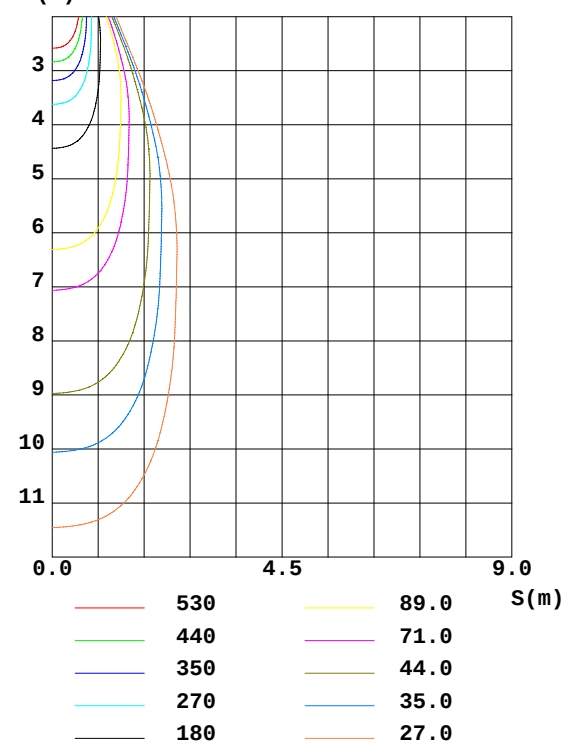
NAME: CL-Dot12 3000k-RA90-34D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 85.42 lm/W			
MODEL		I _{max} (cd)	3563	S/MH(C0/180)	0.59
NOMINAL POWER(W)	16	LOR(%)	100.0	S/MH(C90/270)	0.56
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1435.0	η UP, DN(C0-180)	0.2, 47.8
NOMINAL FLUX(lm)	1435.05	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 51.8
LAMPS INSIDE	1	η up(%)	0.4	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	24	η down(%)	99.6	CIBSE SHR MAX	0.60

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: 2022-04-03

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	3065	2875	2830	2959	3149	3317	3364	3240	0- 10	320.5	320.5	22.3, 22.3
20	1458	1412	1420	1458	1493	1555	1566	1505	10- 20	623.8	944.3	65.8, 65.8
30	293.3	278.1	293.7	292.6	312.0	368.3	385.8	345.7	20- 30	393.7	1338	93.2, 93.2
40	38.75	57.55	58.66	64.98	34.58	42.53	27.97	43.98	30- 40	84.42	1423	99.1, 99.1
50	0.3125	0.5500	0.3438	0.6160	0.1786	0.4979	0.3972	0.5710	40- 50	6.769	1429	99.6, 99.6
60	0	0.0000	0	0.0000	0	0.0001	0	0.0001	50- 60	0.1160	1429	99.6, 99.6
70	0	0	0	0	0	0	0	0	60- 70	0.0000	1429	99.6, 99.6
80	0	0	0	0	0	0	0	0	70- 80	0	1429	99.6, 99.6
90	0	0	0	0	0	0	0	0	80- 90	0	1429	99.6, 99.6
100	0	0	0	0	0	0	0	0	90-100	0	1429	99.6, 99.6
110	0	0	0	0	0	0	0	0	100-110	0	1429	99.6, 99.6
120	0	0	0	0	0	0	0	0	110-120	0	1429	99.6, 99.6
130	0.0047	0.0567	0.0807	0.0426	0.1232	0.1039	0.0940	0.1180	120-130	0.0099	1429	99.6, 99.6
140	0.8526	0.9436	0.9830	0.8871	0.9218	0.8732	0.8718	0.9133	130-140	0.3131	1430	99.6, 99.6
150	2.768	2.933	2.985	2.815	2.711	2.570	2.566	2.657	140-150	1.070	1431	99.7, 99.7
160	5.198	5.382	5.439	5.250	5.052	4.894	4.901	4.996	150-160	1.789	1433	99.8, 99.8
170	7.327	7.371	7.415	7.305	7.255	7.084	7.087	7.150	160-170	1.737	1434	99.9, 99.9
180	8.410	8.325	8.310	8.310	8.424	8.327	8.306	8.310	170-180	0.7381	1435	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

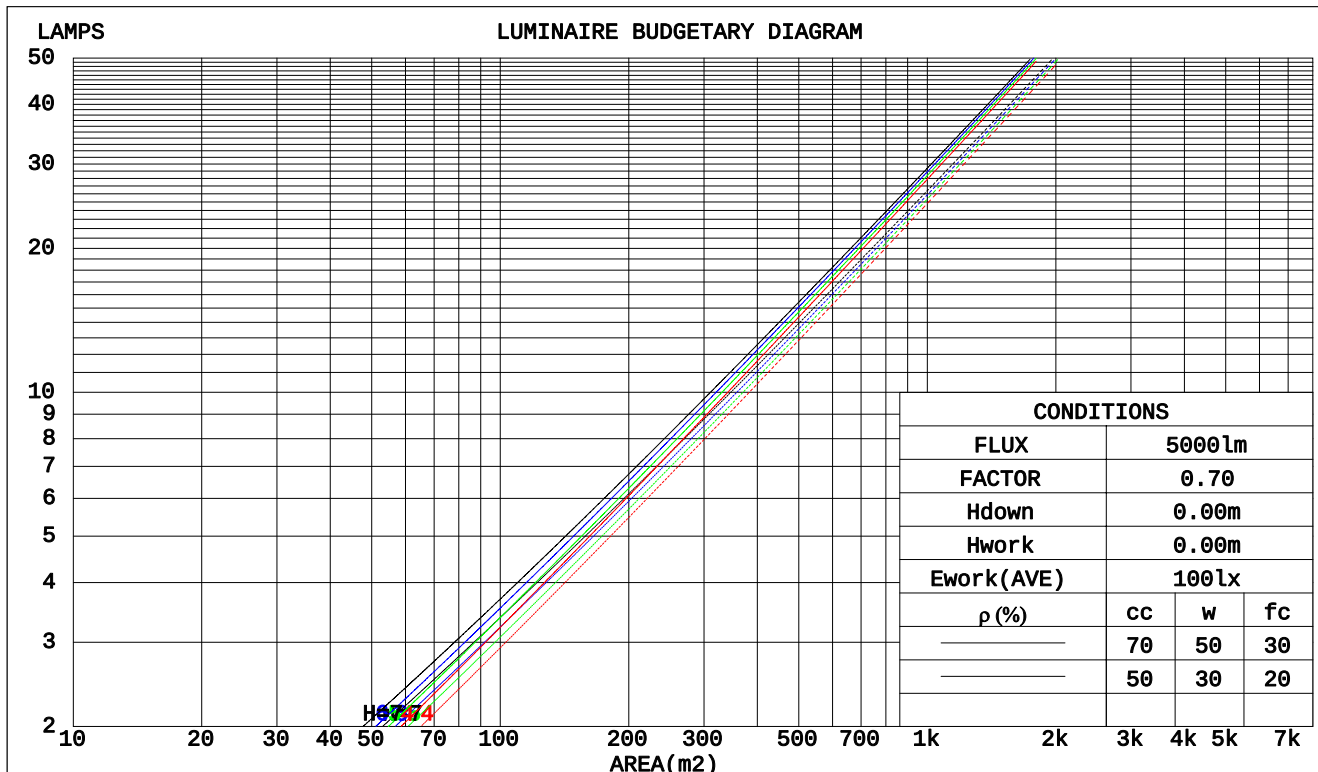
C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: tang
 Test Date: 2022-04-03

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-Ra90-12D-16W	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	1.07	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.95
2.0	1.06	1.03	1.00	1.05	1.02	.99	1.01	.99	.97	.98	.96	.95	.96	.94	.93	.91
3.0	1.01	.97	.94	.90	.96	.93	.97	.94	.92	.95	.92	.90	.92	.90	.89	.87
4.0	.96	.92	.89	.95	.91	.88	.93	.90	.87	.91	.88	.86	.89	.87	.85	.84
5.0	.92	.87	.84	.91	.87	.84	.89	.86	.83	.88	.85	.82	.86	.84	.81	.80
6.0	.88	.83	.80	.87	.83	.80	.86	.82	.79	.85	.81	.79	.83	.80	.78	.77
7.0	.84	.80	.76	.84	.79	.76	.83	.79	.76	.82	.78	.75	.80	.77	.75	.74
8.0	.81	.76	.73	.81	.76	.73	.80	.76	.73	.79	.75	.72	.78	.75	.72	.71
9.0	.78	.73	.70	.78	.73	.70	.77	.73	.70	.76	.72	.70	.75	.72	.69	.68
10.0	.75	.71	.68	.75	.70	.67	.74	.70	.67	.73	.70	.67	.73	.69	.67	.66



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-03

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-Ra90-12D-16W	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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.149	.084	.027	.142	.081	.026	.129	.074	.024	.117	.068	.022	.107	.062	.020		
2.0	.139	.076	.023	.133	.074	.023	.123	.068	.021	.113	.064	.020	.104	.059	.019		
3.0	.131	.070	.021	.126	.068	.020	.117	.064	.019	.109	.060	.018	.101	.056	.017		
4.0	.124	.064	.019	.120	.063	.018	.112	.059	.018	.105	.056	.017	.099	.054	.016		
5.0	.117	.060	.017	.114	.058	.017	.107	.056	.016	.101	.053	.016	.096	.051	.015		
6.0	.112	.056	.016	.109	.055	.016	.103	.053	.015	.098	.051	.015	.093	.049	.015		
7.0	.107	.053	.015	.104	.052	.015	.099	.050	.014	.094	.048	.014	.090	.047	.014		
8.0	.102	.050	.014	.100	.049	.014	.095	.048	.014	.091	.046	.013	.087	.045	.013		
9.0	.098	.047	.013	.096	.047	.013	.092	.045	.013	.088	.044	.013	.085	.043	.012		
10.0	.094	.045	.013	.092	.045	.012	.089	.044	.012	.086	.042	.012	.082	.041	.012		

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	.147	.138	.129	.101	.095	.089	.058	.055	.052	.019	.018	.017		
2.0	.155	.136	.120	.133	.117	.103	.091	.081	.072	.052	.047	.042	.017	.015	.014		
3.0	.141	.116	.097	.121	.100	.084	.083	.070	.059	.048	.041	.035	.015	.013	.011		
4.0	.129	.101	.080	.111	.088	.070	.076	.061	.049	.044	.036	.029	.014	.012	.010		
5.0	.119	.089	.067	.102	.077	.058	.070	.054	.041	.041	.032	.024	.013	.010	.008		
6.0	.111	.079	.057	.095	.069	.050	.066	.048	.035	.038	.028	.021	.012	.009	.007		
7.0	.104	.071	.049	.089	.062	.043	.062	.043	.030	.036	.026	.018	.012	.008	.006		
8.0	.098	.065	.042	.084	.056	.037	.058	.040	.026	.034	.023	.016	.011	.008	.005		
9.0	.092	.059	.037	.079	.052	.033	.055	.036	.023	.032	.021	.014	.010	.007	.005		
10.0	.088	.055	.033	.076	.048	.029	.052	.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:2022-04-03

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: Dot12-3000k-Ra90-12D-16W						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	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	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	0.2	0.2	0.2	0.2	0.2
Room dimensions						Viewed crosswise					Viewed endwise				
x = 2H y = 2H						-0.4	0.3	-0.2	0.5	0.7	0.9	1.6	1.1	1.8	2.0
3H						-0.6	0.1	-0.3	0.3	0.5	0.7	1.4	1.0	1.6	1.8
4H						-0.6	0.0	-0.4	0.2	0.4	0.7	1.3	0.9	1.5	1.7
6H						-0.7	-0.1	-0.4	0.1	0.4	0.6	1.2	0.9	1.4	1.7
8H						-0.8	-0.2	-0.5	0.1	0.3	0.5	1.1	0.8	1.4	1.6
12H						-0.8	-0.3	-0.5	0.0	0.3	0.5	1.0	0.8	1.3	1.6
4H 2H						-0.6	0.0	-0.4	0.2	0.4	0.7	1.3	0.9	1.5	1.7
3H						-0.8	-0.3	-0.5	0.0	0.3	0.5	1.0	0.8	1.3	1.6
4H						-0.9	-0.4	-0.6	-0.1	0.2	0.4	0.9	0.7	1.2	1.5
6H						-1.0	-0.6	-0.6	-0.2	0.1	0.3	0.7	0.7	1.1	1.4
8H						-1.1	-0.6	-0.7	-0.3	0.1	0.2	0.6	0.6	1.0	1.4
12H						-1.1	-0.7	-0.7	-0.4	0.0	0.2	0.6	0.6	0.9	1.3
8H 4H						-1.1	-0.6	-0.7	-0.3	0.1	0.2	0.6	0.6	1.0	1.4
6H						-1.2	-0.8	-0.7	-0.4	-0.0	0.1	0.5	0.5	0.9	1.3
8H						-1.2	-0.9	-0.8	-0.5	-0.1	0.1	0.4	0.5	0.8	1.2
12H						-1.3	-1.0	-0.8	-0.6	-0.1	-0.0	0.3	0.5	0.7	1.2
12H 4H						-1.1	-0.7	-0.7	-0.4	0.0	0.2	0.6	0.6	0.9	1.3
6H						-1.2	-0.9	-0.8	-0.5	-0.1	0.1	0.4	0.5	0.8	1.2
8H						-1.3	-1.0	-0.8	-0.6	-0.1	-0.0	0.3	0.5	0.7	1.2
Variations with the observer position at spacings:															
S = 1.0H						+ 3.5 / -108.3					+ 3.9 / - 1.5				
1.5H						+ 6.3 / -37.8					+ 6.7 / -33.6				
2.0H						+ 6.8 / - 1.5					+ 7.9 / - 1.5				

CIE Pub.117 Corrected 1435 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.3)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-03

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-Ra90-12D-16W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

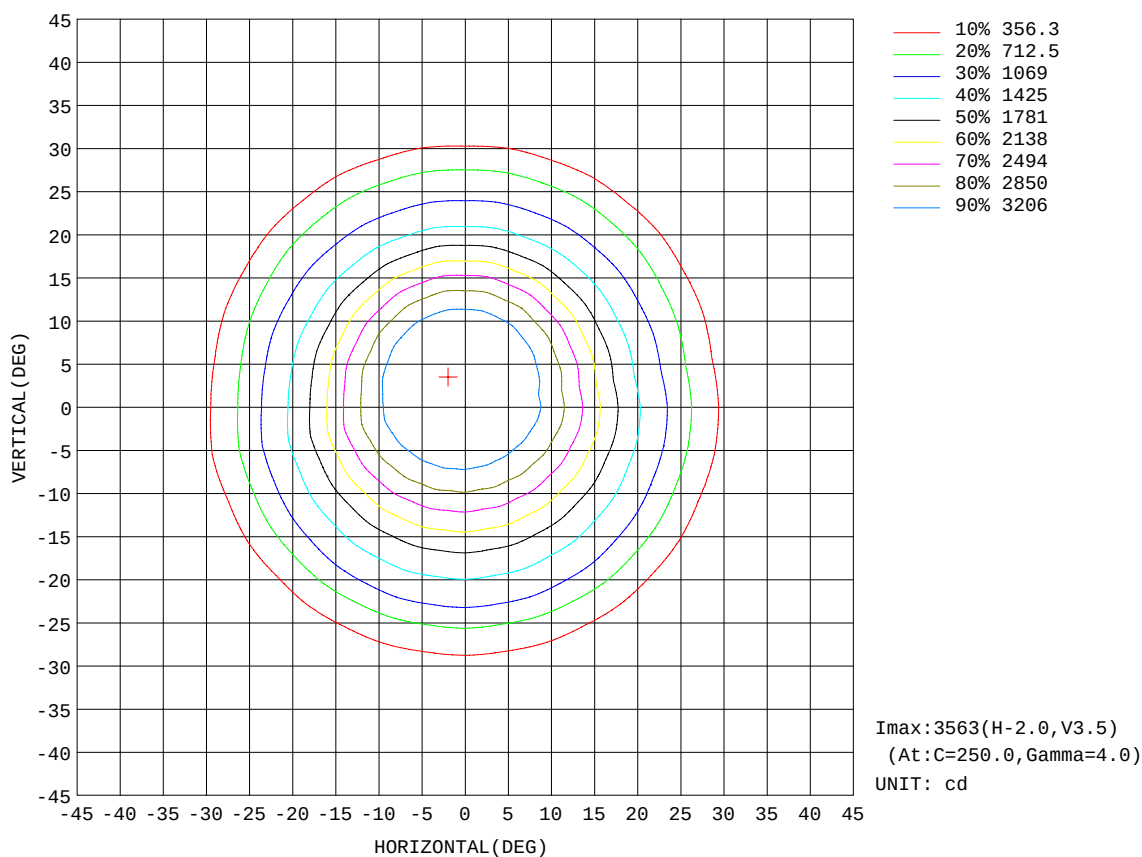
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	82	91	85	82	90	85	82	79
0.80	98	93	90	97	92	89	96	92	89	86
1.00	102	97	94	101	96	93	99	96	93	89
1.25	105	101	98	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	110	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	110	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: 2022-04-03

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-Ra90-12D-16W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

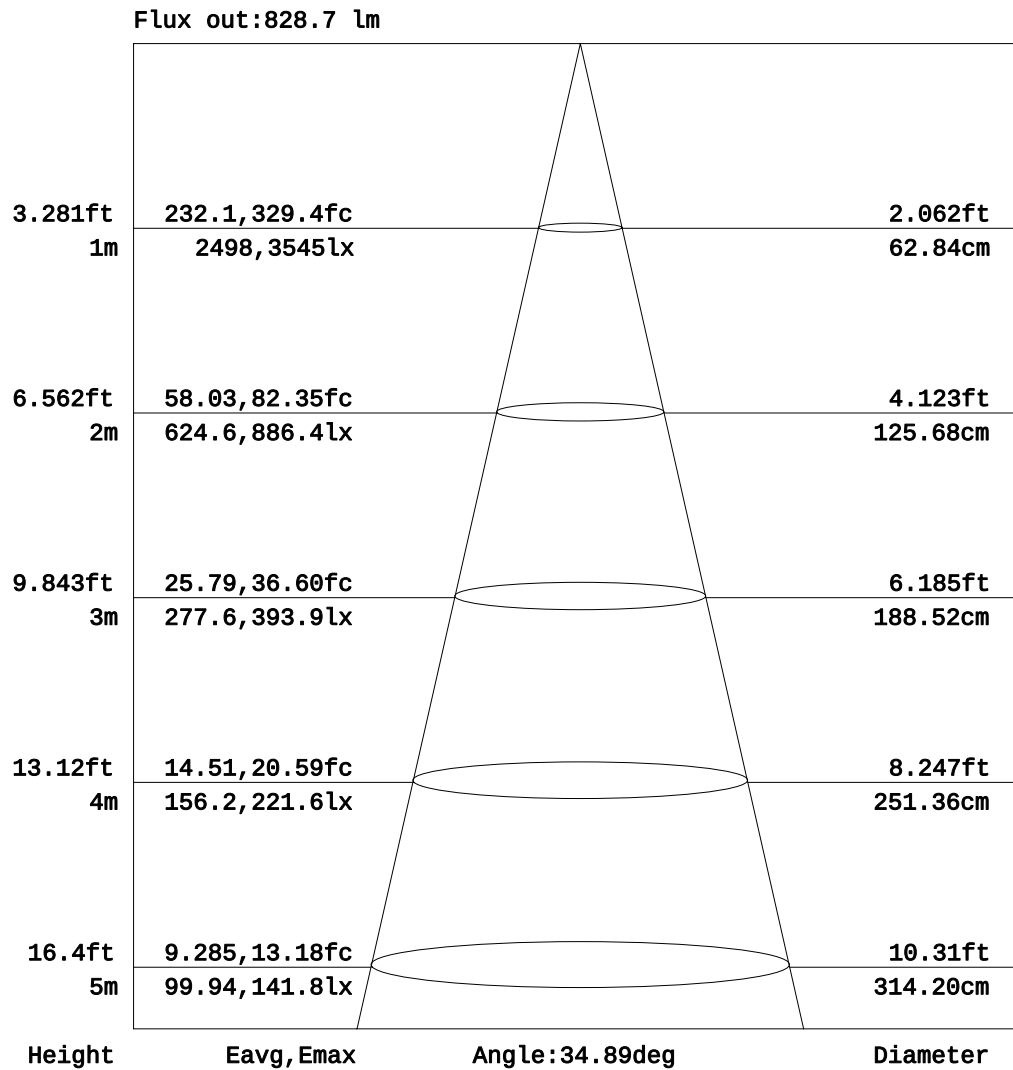


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-03

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-Ra90-12D-16W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:



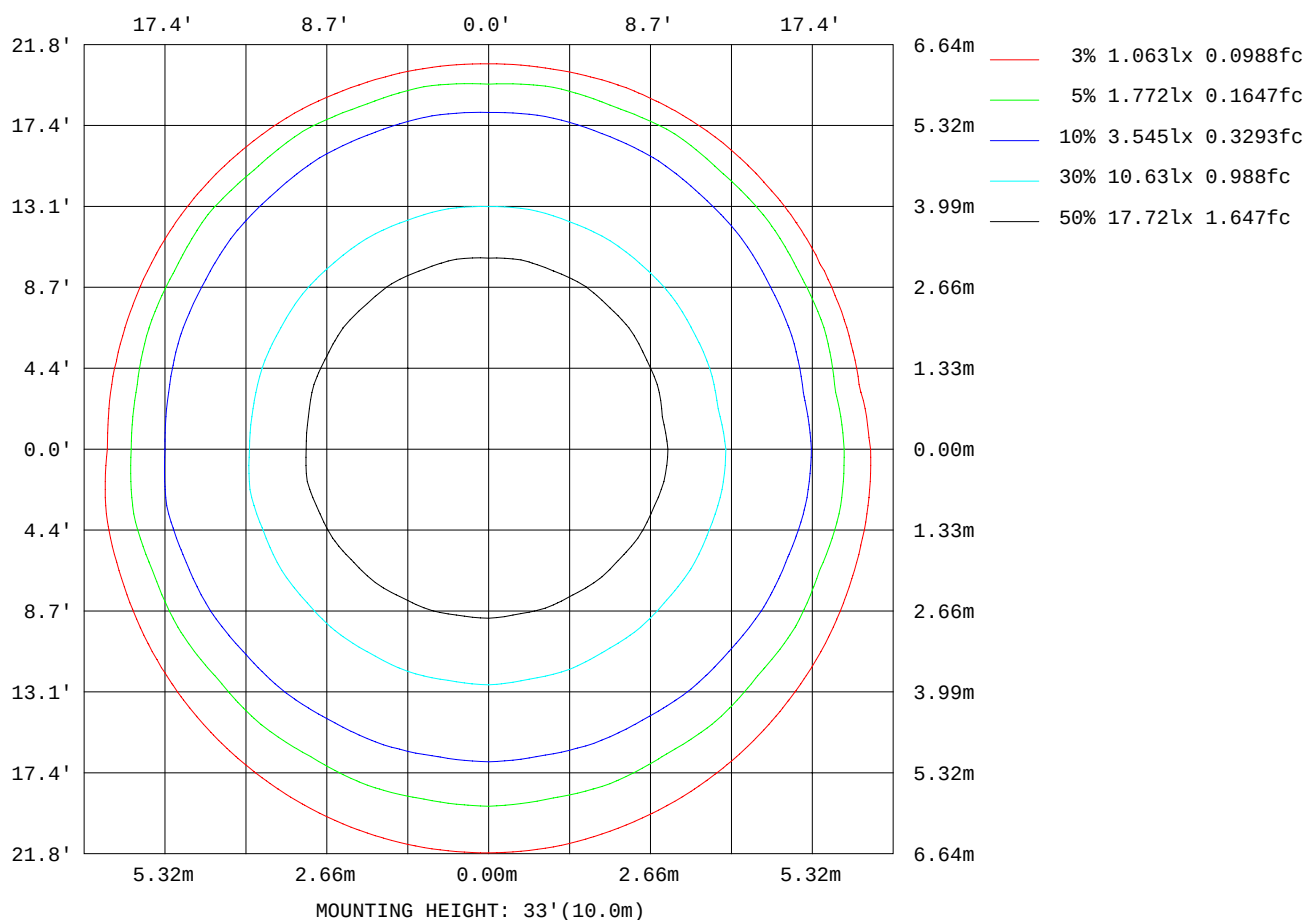
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-03

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-Ra90-12D-16W	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: 2022-04-03

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-Ra90-12D-16W	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	1435.05	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	2	1	3	2	3	1	2	1	2	1	3	3	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:2022-04-03

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-Ra90-12D-16W	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	1435.05	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	2	1	3	2	3	1	2	1	2	1	3	3	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

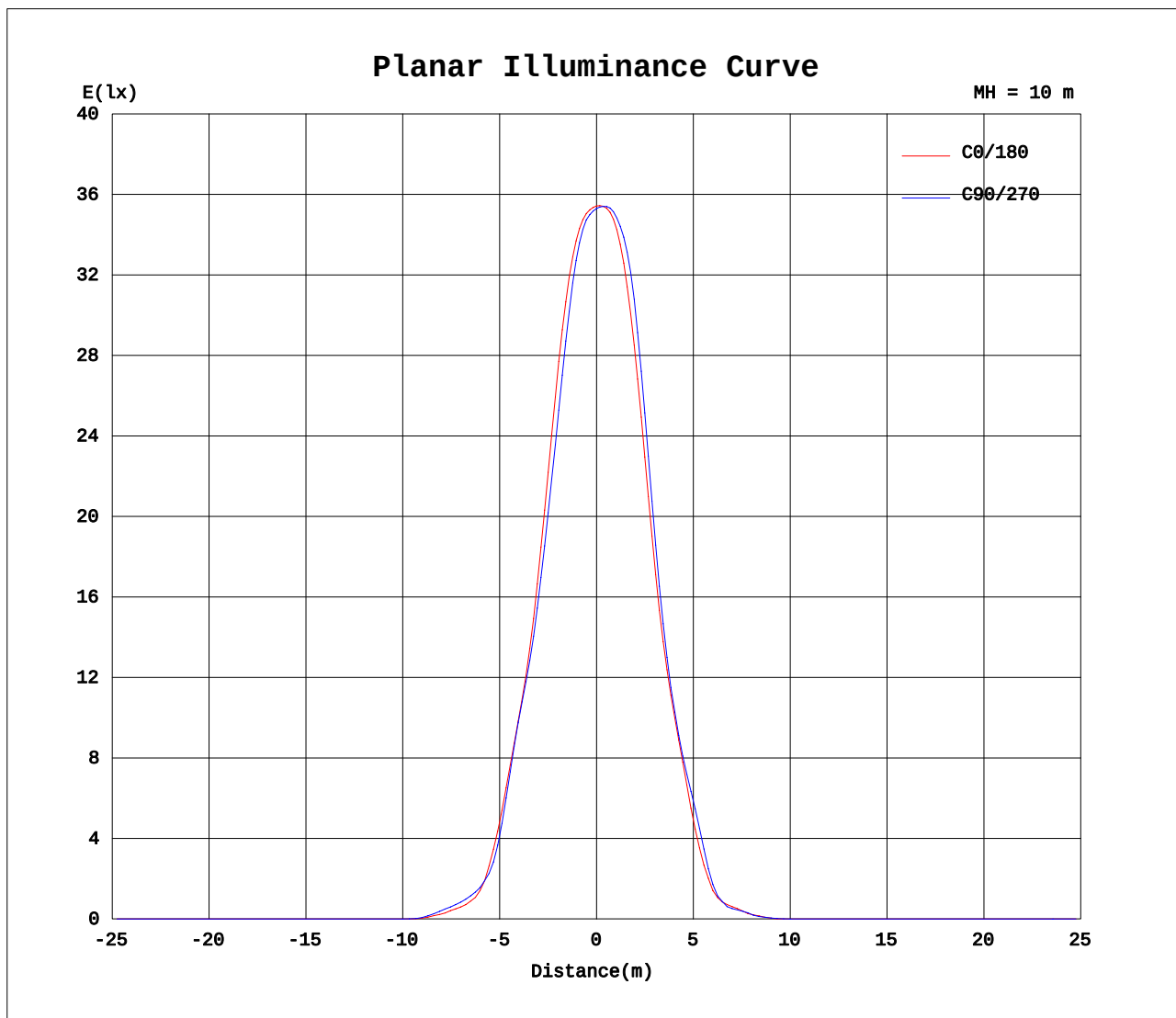
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

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:2022-04-03

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: 2022-04-03

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-Ra90-12D-16W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(°) γ (°)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	3543	3540	3538	3537	3534	3534	3532	3532	3530	3530	3528	3528	3526	3525	3524	3524	3522	3521	3543
5	3471	3457	3435	3426	3409	3406	3393	3396	3389	3399	3399	3414	3420	3440	3450	3470	3481	3497	3517
10	3065	3026	2966	2944	2880	2869	2821	2828	2800	2830	2822	2871	2880	2947	2972	3038	3080	3146	3149
15	2255	2235	2167	2147	2090	2086	2045	2055	2031	2058	2052	2095	2103	2162	2180	2253	2278	2357	2329
20	1458	1457	1428	1432	1408	1415	1400	1414	1403	1420	1415	1436	1432	1459	1458	1489	1490	1527	1493
25	877	869	838	840	815	820	797	807	787	809	801	829	830	862	863	893	897	931	894
30	293	303	274	288	271	285	276	290	282	294	286	296	285	299	286	311	300	338	312
35	110	115	118	125	129	137	143	147	151	154	154	153	149	145	141	135	128	122	112
40	38.7	41.3	44.6	55.1	55.6	59.5	59.9	62.2	57.8	58.7	60.0	66.1	65.1	66.5	63.4	62.7	46.7	42.9	34.6
45	0.90	1.18	1.53	2.19	2.46	2.48	1.81	1.54	1.22	1.32	1.49	1.98	2.59	3.33	2.90	2.00	1.22	0.95	0.77
50	0.31	0.28	0.37	0.40	0.54	0.56	0.52	0.40	0.39	0.34	0.41	0.44	0.58	0.64	0.59	0.39	0.32	0.22	0.18
55	0.04	0.00	0.09	0.08	0.16	0.14	0.18	0.07	0.10	0.04	0.10	0.08	0.19	0.18	0.18	0.07	0.06	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	0.00	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	0.05	0.01	0.07	0.03	0.08	0.04	0.09	0.04	0.08	0.03	0.08	0.04	0.07	0.01	0.05	0.00	0.04	0.12
135	0.32	0.35	0.33	0.38	0.36	0.40	0.37	0.41	0.37	0.41	0.37	0.40	0.35	0.38	0.32	0.35	0.29	0.32	0.41
140	0.85	0.89	0.89	0.93	0.92	0.97	0.95	0.98	0.96	0.98	0.94	0.96	0.91	0.92	0.86	0.86	0.81	0.82	0.92
145	1.67	1.72	1.73	1.78	1.79	1.82	1.82	1.85	1.84	1.85	1.82	1.81	1.76	1.75	1.69	1.67	1.61	1.59	1.68
150	2.77	2.82	2.85	2.89	2.91	2.95	2.96	2.98	2.98	2.98	2.96	2.93	2.88	2.84	2.79	2.75	2.68	2.64	2.71
155	3.98	4.05	4.08	4.13	4.15	4.19	4.20	4.22	4.22	4.23	4.20	4.17	4.11	4.07	4.01	3.96	3.90	3.84	3.88
160	5.20	5.27	5.30	5.35	5.36	5.40	5.41	5.43	5.43	5.44	5.41	5.38	5.33	5.28	5.22	5.17	5.10	5.05	5.05
165	6.37	6.42	6.43	6.47	6.47	6.51	6.50	6.53	6.51	6.53	6.49	6.49	6.43	6.41	6.34	6.31	6.25	6.23	6.23
170	7.33	7.37	7.35	7.39	7.35	7.39	7.36	7.41	7.37	7.42	7.36	7.38	7.32	7.33	7.28	7.27	7.22	7.25	7.26
175	8.04	8.09	8.05	8.08	8.01	8.06	8.01	8.07	8.03	8.07	8.03	8.05	7.99	8.02	7.96	8.00	7.97	8.03	8.05
180	8.41	8.41	8.36	8.36	8.32	8.32	8.32	8.32	8.31	8.31	8.31	8.31	8.31	8.31	8.31	8.32	8.34	8.39	8.42

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-03

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-Ra90-12D-16W	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 (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	3540	3538	3537	3534	3534	3532	3532	3530	3530	3528	3528	3526	3525	3524	3524	3522	3521		
5	3525	3536	3542	3551	3556	3560	3560	3559	3554	3549	3542	3534	3520	3509	3492	3477	3455		
10	3174	3230	3255	3306	3328	3364	3366	3380	3364	3362	3330	3311	3257	3223	3155	3107	3045		
15	2344	2414	2423	2494	2498	2557	2547	2585	2551	2565	2505	2499	2424	2400	2316	2288	2209		
20	1489	1524	1521	1559	1552	1585	1568	1593	1566	1581	1546	1552	1507	1503	1457	1449	1410		
25	902	937	943	967	963	977	969	979	966	971	958	959	935	928	894	877	835		
30	306	342	341	368	369	394	387	403	386	397	375	375	345	346	308	309	269		
35	106	104	104	107	108	106	100	97.4	95.6	98.4	102	106	105	104	101	99.0	99.2		
40	33.4	33.7	40.0	43.2	41.9	43.6	36.3	29.8	28.0	31.3	39.0	46.0	43.4	44.5	40.2	35.2	32.9		
45	0.87	1.28	2.01	3.40	3.42	2.86	1.99	1.47	1.18	1.71	2.36	3.13	3.04	2.65	1.30	0.92	0.82		
50	0.24	0.24	0.38	0.44	0.55	0.48	0.43	0.35	0.40	0.38	0.47	0.50	0.62	0.52	0.44	0.31	0.30		
55	0.01	0.00	0.09	0.09	0.18	0.12	0.12	0.06	0.10	0.06	0.14	0.15	0.22	0.15	0.12	0.03	0.03		
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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
130	0.07	0.11	0.08	0.12	0.08	0.13	0.09	0.14	0.09	0.13	0.10	0.14	0.09	0.14	0.09	0.13	0.09		
135	0.36	0.39	0.35	0.39	0.36	0.40	0.37	0.42	0.38	0.42	0.38	0.43	0.39	0.43	0.39	0.43	0.40		
140	0.87	0.89	0.86	0.89	0.86	0.89	0.86	0.90	0.87	0.91	0.89	0.92	0.90	0.93	0.91	0.95	0.93		
145	1.64	1.63	1.60	1.61	1.59	1.61	1.59	1.61	1.60	1.63	1.62	1.65	1.65	1.68	1.68	1.72	1.73		
150	2.65	2.63	2.59	2.58	2.56	2.57	2.55	2.57	2.57	2.58	2.59	2.63	2.64	2.67	2.69	2.74	2.78		
155	3.81	3.79	3.74	3.74	3.71	3.71	3.70	3.72	3.72	3.74	3.74	3.78	3.80	3.83	3.87	3.92	3.96		
160	4.98	4.95	4.91	4.91	4.88	4.89	4.88	4.90	4.90	4.92	4.92	4.96	4.97	5.02	5.05	5.11	5.15		
165	6.13	6.11	6.06	6.06	6.02	6.04	6.03	6.06	6.05	6.07	6.07	6.10	6.12	6.16	6.18	6.24	6.26		
170	7.16	7.14	7.09	7.10	7.07	7.10	7.08	7.10	7.09	7.12	7.10	7.14	7.12	7.18	7.19	7.24	7.22		
175	7.97	7.95	7.89	7.92	7.87	7.92	7.87	7.92	7.88	7.92	7.88	7.94	7.90	7.96	7.95	8.02	7.99		
180	8.40	8.40	8.33	8.34	8.32	8.32	8.31	8.31	8.31	8.31	8.31	8.31	8.31	8.31	8.32	8.34	8.38		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-03

γ Range: 0 - 180DEG
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