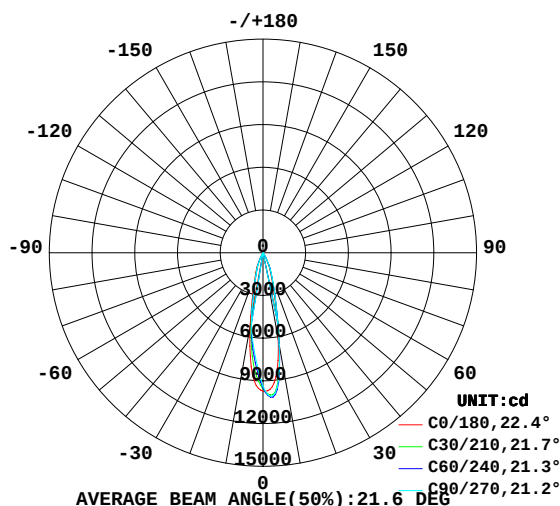


LUMINAIRE PHOTOMETRIC TEST REPORT

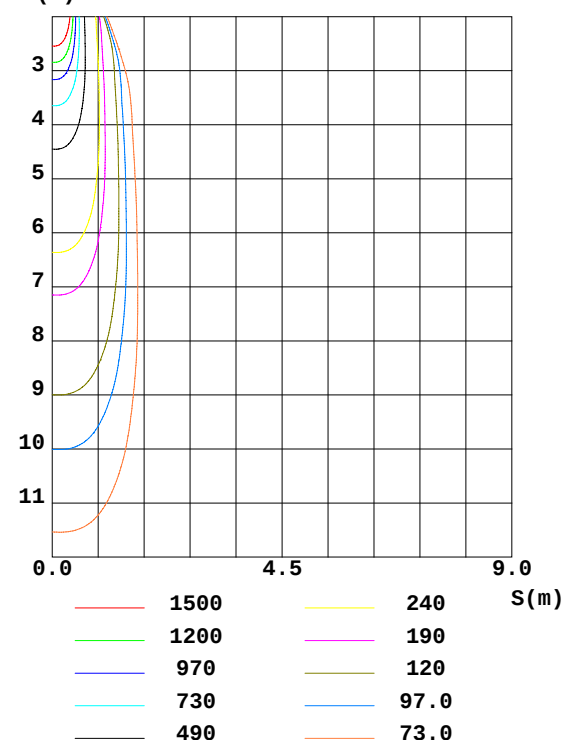
NAME:CL-Dot24-uls 3000K-Ra90-24w-20D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 80.61 lm/W			
MODEL		Imax(cd)	10160	S/MH(C0/180)	0.41
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	0.43
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1934.7	η UP, DN(C0-180)	0.2, 56.7
NOMINAL FLUX(lm)	1934.75	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 42.9
LAMPS INSIDE	1	η up(%)	0.4	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	24	η down(%)	99.6	CIBSE SHR MAX	1.00

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:2022-05-03

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	620.2	666.5	655.5	594.5	518.6	469.0	465.0	508.3	0- 10	722.4	722.4	37.3, 37.3
20	167.6	185.9	189.2	171.0	145.8	129.2	127.0	138.2	10- 20	818.8	1541	79.7, 79.7
30	16.55	25.87	28.03	16.18	5.985	6.011	6.751	8.579	20- 30	366.4	1908	98.6, 98.6
40	0.8821	0.8443	0.5905	0.4474	0.3665	0.5370	0.6975	0.8818	30- 40	17.02	1925	99.5, 99.5
50	0.0980	0.0963	0.0490	0.0503	0.0367	0.0467	0.0842	0.1031	40- 50	1.943	1927	99.6, 99.6
60	0.0034	0.0017	0	0.0010	0	0.0012	0.0015	0.0019	50- 60	0.2586	1927	99.6, 99.6
70	0	0	0	0	0	0	0	0	60- 70	0.0009	1927	99.6, 99.6
80	0	0	0	0	0	0	0	0	70- 80	0	1927	99.6, 99.6
90	0	0	0	0	0	0	0	0	80- 90	0	1927	99.6, 99.6
100	0	0	0	0	0	0	0	0	90-100	0	1927	99.6, 99.6
110	0	0	0	0	0	0	0	0	100-110	0	1927	99.6, 99.6
120	0	0	0	0	0	0	0	0	110-120	0	1927	99.6, 99.6
130	0	0	0	0	0.0076	0.0090	0.0080	0.0054	120-130	0.0039	1927	99.6, 99.6
140	0.0626	0.0578	0.0619	0.0665	0.0927	0.1064	0.1098	0.0942	130-140	0.2388	1927	99.6, 99.6
150	0.3200	0.2928	0.2958	0.3204	0.3691	0.4036	0.4084	0.3680	140-150	1.171	1928	99.7, 99.7
160	0.8102	0.7640	0.7602	0.7942	0.8410	0.8686	0.8642	0.8207	150-160	2.592	1931	99.8, 99.8
170	1.184	1.147	1.137	1.143	1.181	1.176	1.160	1.139	160-170	2.808	1934	99.9, 99.9
180	1.288	1.267	1.252	1.237	1.291	1.267	1.248	1.236	170-180	1.144	1935	100, 100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

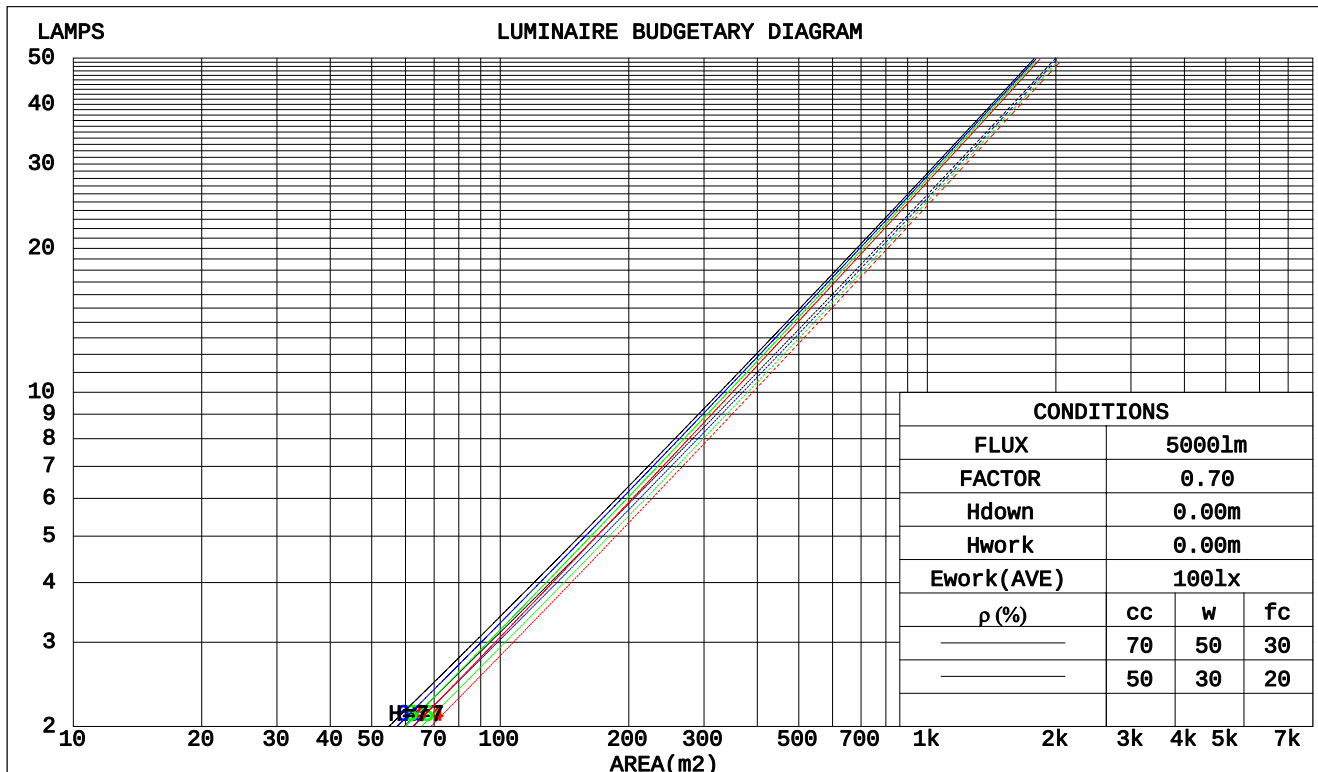
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-05-03

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: Dot24-s-3000K-RA90-6W-24w-20D.	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			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	1.13	1.11	1.09	1.11	1.09	1.08	1.07	1.05	1.04	1.03	1.02	1.01	.00	.99	.98	.97
2.0	1.08	1.05	1.03	1.06	1.04	1.01	1.03	1.01	.99	1.00	.98	.97	.97	.96	.95	.94
3.0	1.04	1.00	.97	1.02	.99	.96	.00	.97	.95	.97	.95	.93	.95	.93	.92	.91
4.0	.00	.96	.93	.99	.95	.92	.97	.94	.91	.95	.92	.90	.93	.91	.89	.88
5.0	.96	.92	.89	.95	.92	.89	.94	.91	.88	.92	.89	.87	.91	.88	.87	.86
6.0	.93	.89	.86	.92	.89	.86	.91	.88	.85	.90	.87	.85	.89	.86	.84	.83
7.0	.90	.86	.83	.90	.86	.83	.88	.85	.83	.87	.84	.82	.86	.84	.82	.81
8.0	.88	.84	.81	.87	.83	.81	.86	.83	.80	.85	.82	.80	.84	.82	.80	.79
9.0	.85	.81	.78	.85	.81	.78	.84	.80	.78	.83	.80	.78	.82	.80	.78	.77
10.0	.83	.79	.76	.82	.79	.76	.82	.78	.76	.81	.78	.76	.80	.78	.76	.75



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-05-03

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: Dot24-S-3000K-RA90-6W-24W-20D.	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	.133	.076	.024	.127	.072	.023	.114	.065	.021	.102	.059	.019	.092	.053	.017		
2.0	.123	.067	.021	.118	.065	.020	.107	.060	.019	.098	.055	.017	.089	.050	.016		
3.0	.115	.061	.018	.110	.059	.018	.101	.055	.017	.093	.051	.016	.086	.047	.015		
4.0	.107	.056	.016	.103	.054	.016	.096	.051	.015	.089	.048	.014	.083	.045	.014		
5.0	.101	.051	.015	.098	.050	.015	.091	.048	.014	.086	.045	.013	.080	.043	.013		
6.0	.096	.048	.014	.093	.047	.013	.087	.045	.013	.082	.043	.013	.078	.041	.012		
7.0	.091	.045	.013	.088	.044	.013	.084	.042	.012	.079	.041	.012	.075	.039	.011		
8.0	.087	.042	.012	.084	.042	.012	.080	.040	.011	.076	.039	.011	.073	.037	.011		
9.0	.083	.040	.011	.081	.039	.011	.077	.038	.011	.074	.037	.011	.071	.036	.010		
10.0	.079	.038	.011	.078	.038	.010	.074	.036	.010	.071	.035	.010	.068	.034	.010		

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	.194	.194	.194	.165	.165	.165	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.171	.161	.151	.147	.138	.130	.100	.095	.090	.058	.055	.052	.018	.018	.017	
2.0	.153	.136	.122	.131	.117	.105	.090	.081	.073	.052	.047	.043	.017	.015	.014	
3.0	.138	.116	.099	.118	.100	.086	.081	.070	.060	.047	.041	.036	.015	.013	.012	
4.0	.125	.101	.083	.107	.087	.072	.074	.061	.051	.043	.036	.030	.014	.012	.010	
5.0	.114	.089	.070	.098	.077	.061	.068	.054	.043	.039	.031	.025	.013	.010	.008	
6.0	.105	.079	.059	.091	.068	.052	.063	.048	.037	.036	.028	.022	.012	.009	.007	
7.0	.098	.070	.051	.084	.061	.045	.058	.043	.032	.034	.025	.019	.011	.008	.006	
8.0	.091	.064	.045	.079	.055	.039	.054	.039	.028	.032	.023	.016	.010	.007	.005	
9.0	.086	.058	.039	.074	.050	.034	.051	.035	.024	.030	.021	.014	.010	.007	.005	
10.0	.081	.053	.035	.070	.046	.030	.048	.032	.022	.028	.019	.013	.009	.006	.004	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-05-03

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:

Uncorrected UGR Table

NAME: Dot24-s-3000K-RA90-6W-24w-20D.						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						-13.2	-12.6	-13.0	-12.5	-12.3	-11.3	-10.7	-11.1	-10.5	-10.4
3H						-13.4	-12.8	-13.2	-12.6	-12.4	-11.5	-10.9	-11.2	-10.7	-10.5
4H						-13.5	-12.9	-13.2	-12.7	-12.5	-11.5	-11.0	-11.3	-10.8	-10.6
6H						-13.6	-13.0	-13.3	-12.8	-12.6	-11.6	-11.1	-11.3	-10.9	-10.6
8H						-13.6	-13.1	-13.3	-12.8	-12.6	-11.7	-11.2	-11.4	-10.9	-10.7
12H						-13.7	-13.2	-13.3	-12.9	-12.6	-11.7	-11.2	-11.4	-11.0	-10.7
4H 2H						-13.5	-12.9	-13.2	-12.7	-12.5	-11.5	-11.0	-11.3	-10.8	-10.6
3H						-13.7	-13.2	-13.3	-12.9	-12.6	-11.7	-11.2	-11.4	-11.0	-10.7
4H						-13.7	-13.3	-13.4	-13.0	-12.7	-11.8	-11.4	-11.5	-11.1	-10.8
6H						-13.9	-13.5	-13.5	-13.1	-12.8	-11.9	-11.5	-11.5	-11.2	-10.8
8H						-13.9	-13.5	-13.5	-13.2	-12.8	-12.0	-11.6	-11.6	-11.2	-10.9
12H						-14.0	-13.6	-13.6	-13.2	-12.9	-12.0	-11.7	-11.6	-11.3	-10.9
8H 4H						-13.9	-13.5	-13.5	-13.2	-12.8	-12.0	-11.6	-11.6	-11.2	-10.9
6H						-14.0	-13.7	-13.6	-13.3	-12.9	-12.1	-11.8	-11.7	-11.4	-11.0
8H						-14.1	-13.8	-13.6	-13.4	-12.9	-12.1	-11.9	-11.7	-11.5	-11.0
12H						-14.2	-13.9	-13.7	-13.5	-13.0	-12.2	-12.0	-11.7	-11.5	-11.1
12H 4H						-14.0	-13.6	-13.6	-13.2	-12.9	-12.0	-11.7	-11.6	-11.3	-10.9
6H						-14.1	-13.8	-13.6	-13.4	-12.9	-12.1	-11.9	-11.7	-11.5	-11.0
8H						-14.2	-13.9	-13.7	-13.5	-13.0	-12.2	-12.0	-11.7	-11.5	-11.1
Variations with the observer position at spacings:															
S = 1.0H						+ 3.6 / -18.9					+ 3.1 / -23.0				
1.5H						+ 6.0 / -13.7					+ 5.7 / -13.6				
2.0H						+ 7.6 / - 1.\$					+ 6.7 / - 1.\$				

CIE Pub.117 Corrected 1935 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.3)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-05-03

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: Dot24-s-3000K-RA90-6W-24w-20D.	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

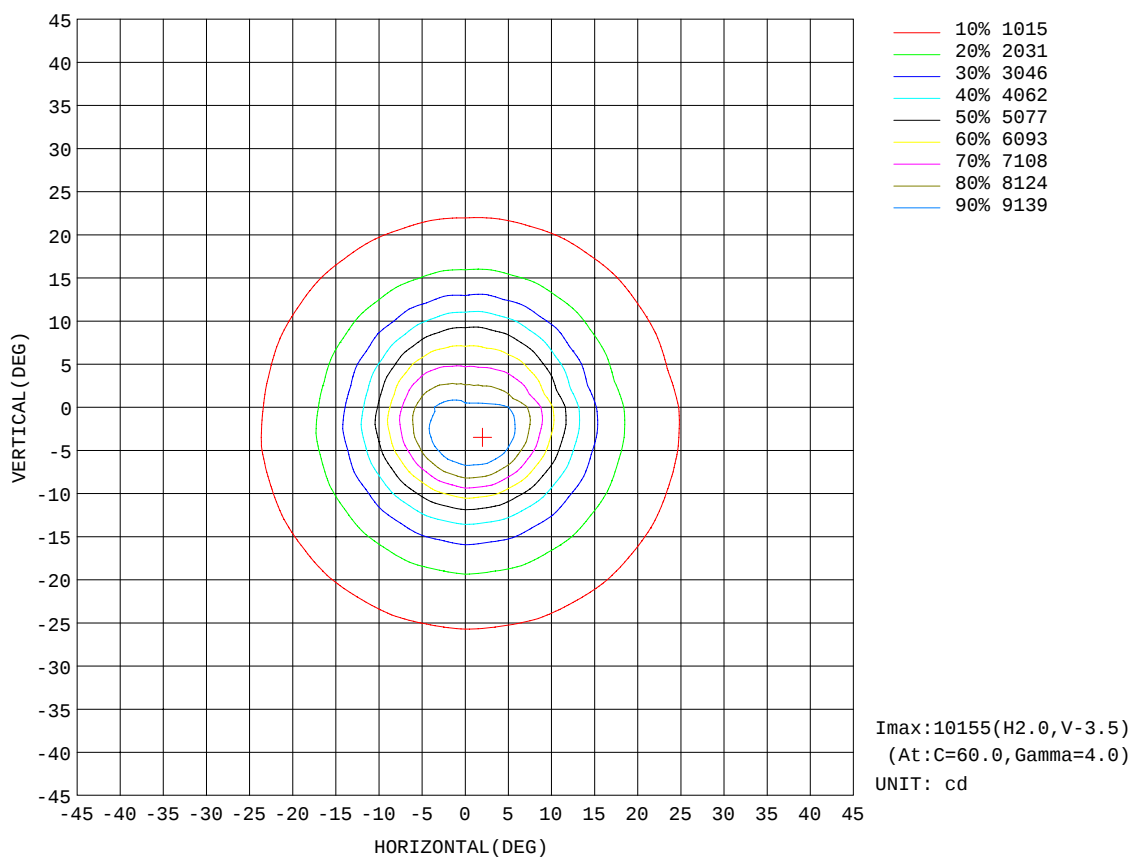
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	86	82	91	85	82	90	85	82	79
0.80	98	93	90	97	93	90	96	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	93
1.50	108	104	101	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	97
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	114	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: 0
Test Date: 2022-05-03

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: Dot24-s-3000K-RA90-6W-24w-20D.	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

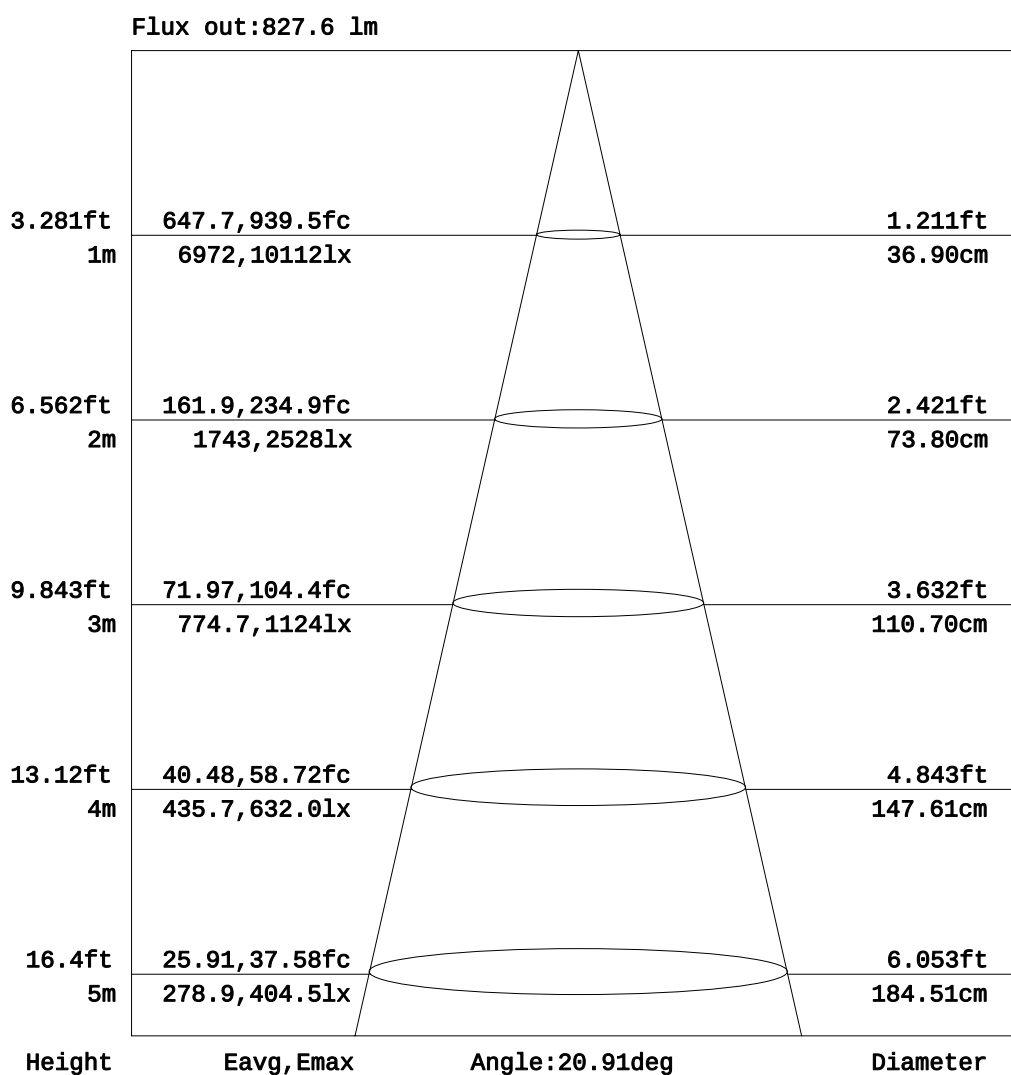


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-05-03

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: Dot24-s-3000K-RA90-6W-24w-20D.	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:



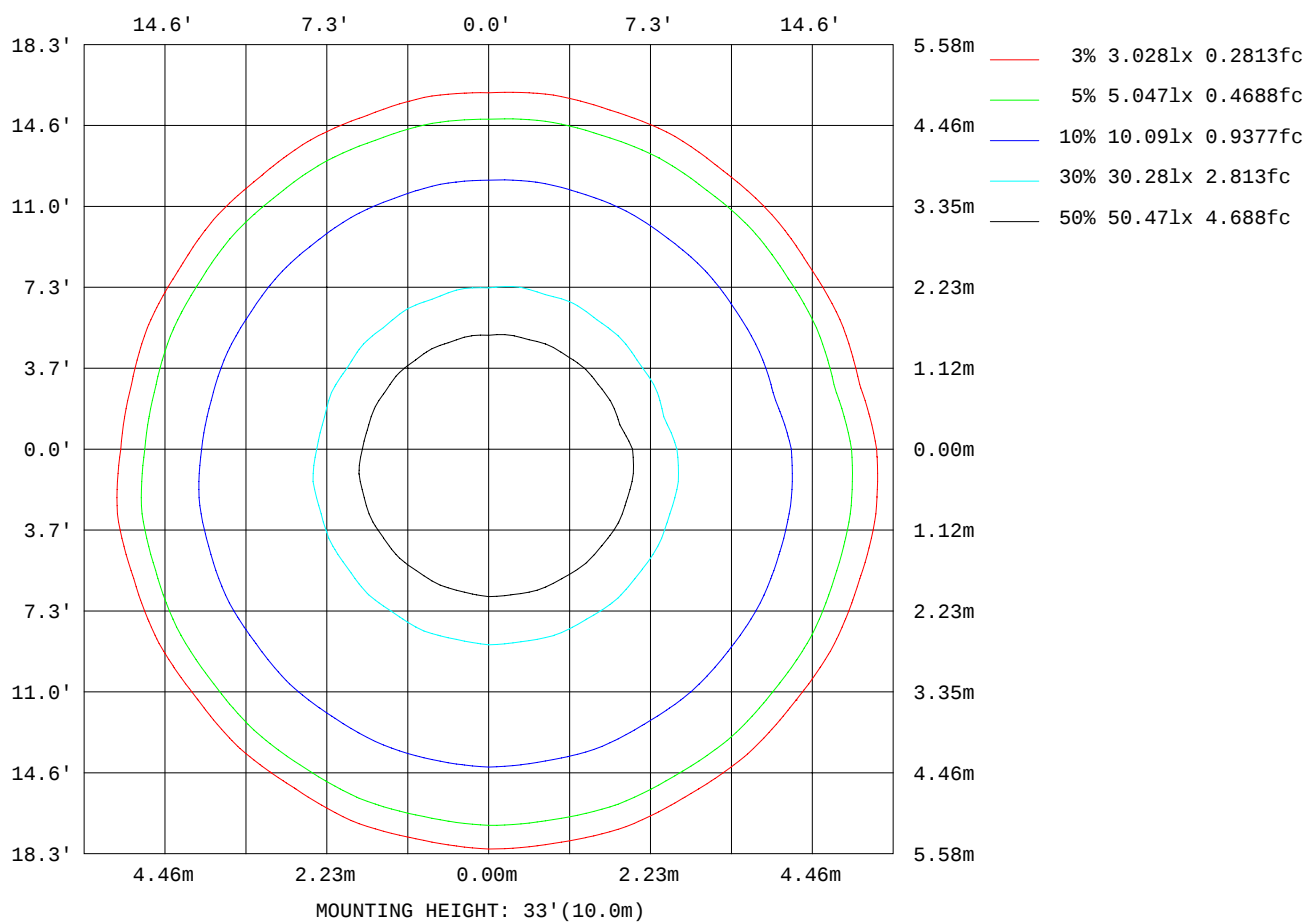
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-05-03

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: Dot24-s-3000K-RA90-6W-24w-20D.	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: 2022-05-03

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: Dot24-s-3000K-RA90-6W-24w-20D.	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	1934.75	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	7	6	7	6	7	6	6	4	5	4	4	3	4	3	4	3	4	3	2
60	1	0	1	0	1	0	1	0	0	0	1	0	1	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	7	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:2022-05-03

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: Dot24-s-3000K-RA90-6W-24w-20D.	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	1934.75	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	7	6	7	6	7	6	6	4	5	4	4	3	4	3	4	3	4	3	2
60	1	0	1	0	1	0	1	0	0	0	1	0	1	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	7	1000	1500	200	500
65 to 90	0	1000	1500	200	500

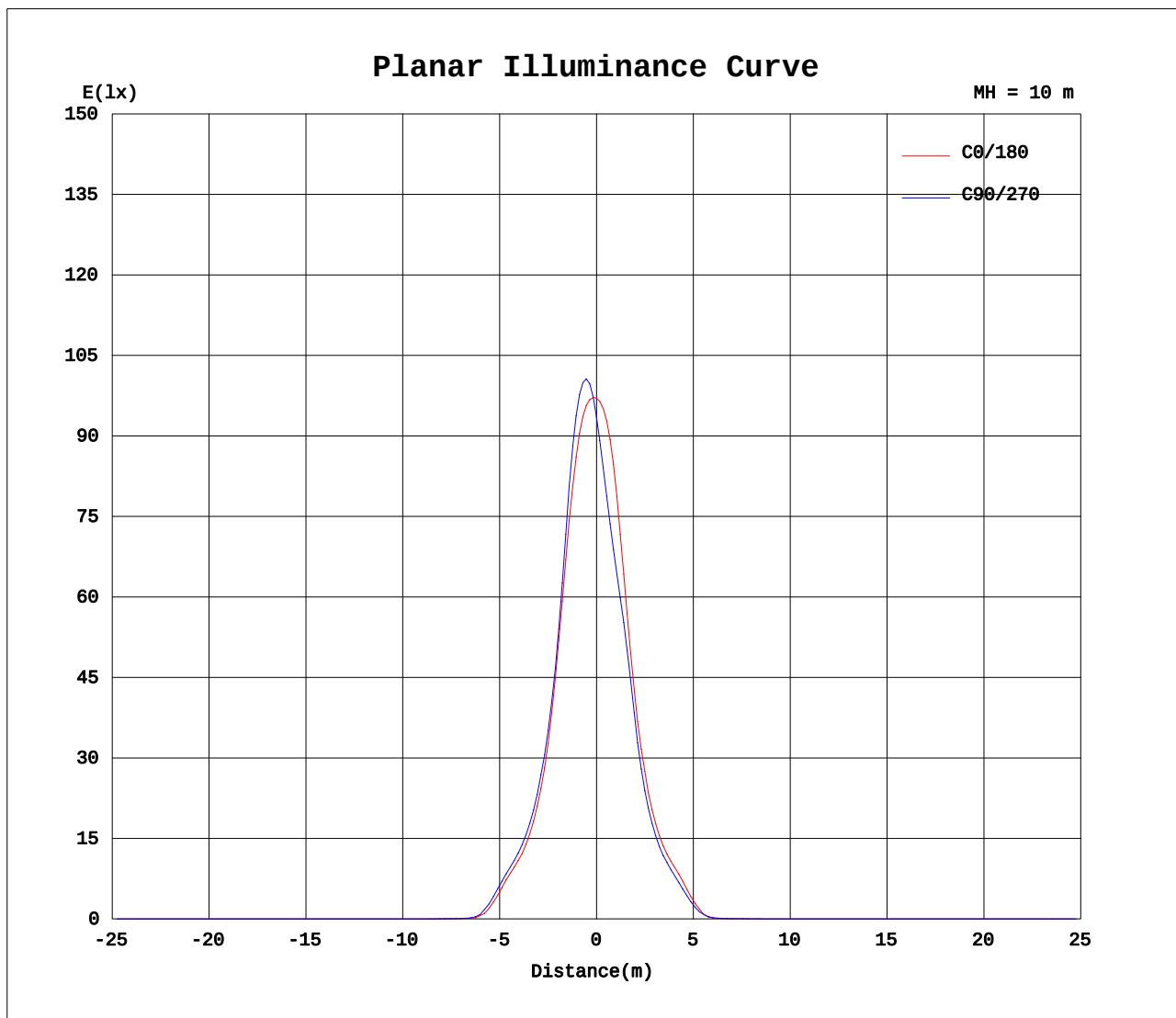
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

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:2022-05-03

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: 0
Test Date: 2022-05-03

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: Dot24-s-3000K-RA90-6W-24w-20D.	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: ×10cd

C(°) \ γ (°)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	971	966	963	957	956	949	949	942	943	936	938	932	935	930	933	931	933	933	971
5	915	942	960	982	993	1002	1000	998	989	988	980	975	959	947	925	910	887	871	857
10	620	642	645	663	660	673	664	671	656	656	635	631	609	605	584	579	558	551	519
15	313	330	327	338	337	345	341	346	338	340	330	332	317	317	301	300	284	280	261
20	168	175	177	183	183	188	188	191	188	189	184	183	177	174	168	165	157	154	146
25	98.2	103	105	109	109	112	112	114	113	113	110	109	104	102	97.2	94.7	88.5	85.7	74.6
30	16.5	19.3	20.1	25.7	23.5	28.3	25.3	29.6	25.4	28.0	22.7	21.6	18.2	16.5	15.8	12.2	12.0	9.26	5.99
35	1.71	1.74	1.70	1.78	1.84	1.90	1.96	1.99	1.86	1.81	1.70	1.66	1.46	1.32	1.19	1.12	1.10	1.15	1.11
40	0.88	0.88	0.83	0.85	0.85	0.84	0.80	0.77	0.66	0.59	0.55	0.55	0.52	0.48	0.41	0.40	0.41	0.41	0.37
45	0.29	0.28	0.27	0.29	0.29	0.29	0.25	0.24	0.19	0.16	0.14	0.15	0.16	0.14	0.13	0.12	0.12	0.12	0.10
50	0.10	0.09	0.10	0.09	0.10	0.09	0.09	0.07	0.06	0.05	0.05	0.05	0.06	0.05	0.05	0.05	0.05	0.04	0.04
55	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
135	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.04
140	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.08	0.09
145	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.16	0.16	0.17	0.17	0.17	0.20
150	0.32	0.31	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.31	0.32	0.33	0.33	0.34	0.35	0.37
155	0.55	0.54	0.53	0.52	0.51	0.51	0.51	0.50	0.51	0.51	0.52	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.60
160	0.81	0.79	0.79	0.77	0.77	0.76	0.76	0.75	0.76	0.76	0.77	0.77	0.78	0.79	0.80	0.81	0.82	0.83	0.84
165	1.04	1.03	1.02	1.01	1.00	0.99	0.99	0.99	0.99	0.99	0.99	0.99	1.00	1.00	1.01	1.02	1.03	1.04	1.05
170	1.18	1.18	1.16	1.16	1.15	1.15	1.14	1.14	1.13	1.14	1.13	1.14	1.14	1.14	1.14	1.15	1.16	1.17	1.18
175	1.25	1.25	1.24	1.23	1.22	1.22	1.21	1.22	1.21	1.21	1.21	1.21	1.20	1.21	1.20	1.21	1.21	1.22	1.25
180	1.29	1.29	1.28	1.28	1.27	1.27	1.26	1.26	1.25	1.25	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.25	1.29

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-05-03

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: Dot24-s-3000K-RA90-6W-24w-20D.	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: ×10cd

C(°)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
γ (°)																			
0	966	963	957	956	949	949	942	943	936	938	932	935	930	933	931	933	933		
5	829	810	782	766	742	730	711	705	696	702	706	723	738	764	785	816	839		
10	498	492	475	475	463	467	460	468	465	477	479	494	499	517	526	548	557		
15	249	246	236	236	229	231	227	231	229	237	237	248	250	261	263	276	279		
20	139	137	133	131	128	127	126	127	127	129	130	134	136	140	142	149	151		
25	68.5	67.0	62.5	62.1	58.9	59.5	57.6	59.6	58.7	61.9	62.7	66.8	68.0	73.0	75.3	81.5	83.9		
30	5.35	5.69	5.52	6.01	6.02	6.46	6.40	6.84	6.75	7.35	7.44	8.15	8.18	8.97	10.7	10.3	12.8		
35	1.10	1.19	1.26	1.33	1.38	1.49	1.51	1.53	1.47	1.51	1.60	1.64	1.61	1.56	1.57	1.60	1.58		
40	0.38	0.42	0.46	0.52	0.56	0.68	0.75	0.76	0.70	0.73	0.80	0.87	0.87	0.90	0.85	0.82	0.77		
45	0.11	0.11	0.12	0.13	0.14	0.19	0.23	0.25	0.23	0.24	0.24	0.26	0.30	0.29	0.26	0.25	0.25		
50	0.04	0.04	0.05	0.04	0.05	0.05	0.07	0.07	0.08	0.09	0.09	0.09	0.11	0.10	0.09	0.08	0.09		
55	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.04	0.04	0.03	0.04		
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	0.00	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.00		
135	0.03	0.04	0.04	0.04	0.04	0.05	0.04	0.05	0.04	0.05	0.04	0.04	0.03	0.04	0.03	0.03	0.02		
140	0.09	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.09	0.09	0.08	0.08		
145	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.23	0.23	0.22	0.22	0.21	0.20	0.19	0.19	0.18	0.17		
150	0.38	0.39	0.40	0.40	0.41	0.41	0.41	0.41	0.41	0.40	0.40	0.38	0.37	0.36	0.35	0.34	0.33		
155	0.61	0.62	0.63	0.63	0.64	0.64	0.65	0.64	0.64	0.63	0.62	0.61	0.60	0.58	0.58	0.56	0.55		
160	0.85	0.85	0.86	0.87	0.87	0.87	0.87	0.87	0.86	0.85	0.85	0.83	0.83	0.81	0.81	0.79	0.79		
165	1.05	1.06	1.06	1.06	1.06	1.06	1.06	1.05	1.05	1.04	1.03	1.03	1.02	1.01	1.01	1.00	1.00		
170	1.18	1.18	1.17	1.18	1.17	1.18	1.17	1.17	1.16	1.16	1.15	1.15	1.14	1.14	1.13	1.14	1.13		
175	1.24	1.24	1.23	1.23	1.23	1.23	1.22	1.22	1.21	1.21	1.20	1.20	1.20	1.20	1.20	1.20	1.20		
180	1.28	1.28	1.27	1.27	1.26	1.26	1.25	1.25	1.25	1.25	1.24	1.24	1.24	1.24	1.24	1.24	1.25		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-05-03

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: