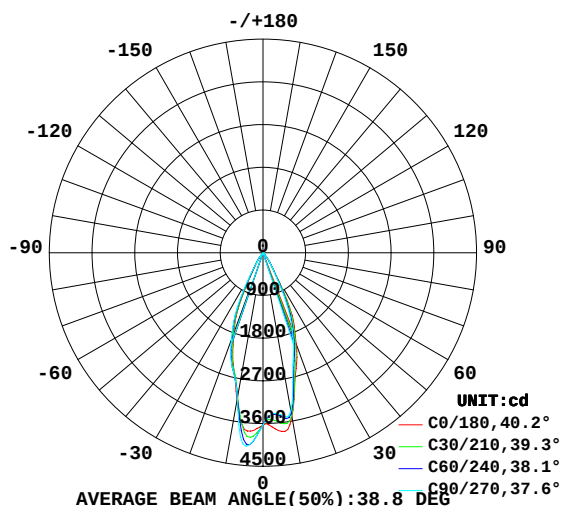


LUMINAIRE PHOTOMETRIC TEST REPORT

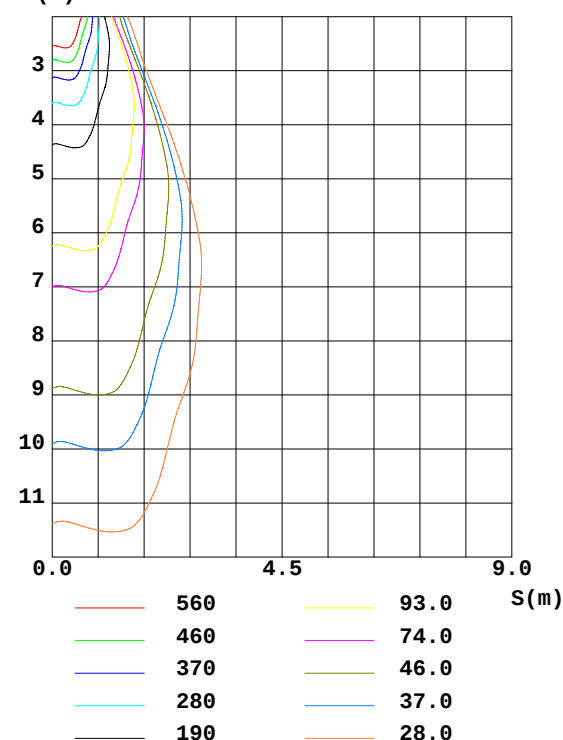
NAME:CL-Dot24-uls 3000K-Ra90-24w-48D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 73.05 lm/W			
MODEL		I _{max} (cd)	4103	S/MH(C0/180)	0.70
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	0.65
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1753.3	η UP, DN(C0-180)	0.2, 50.0
NOMINAL FLUX(lm)	1753.31	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 49.6
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	3508	3465	3388	3229	3163	3084	3121	3281	0- 10	343.6	343.6	19.6,19.6
20	2047	1948	1847	1784	1787	1876	1941	2015	10- 20	697.5	1041	59.4,59.4
30	571.4	542.4	495.9	442.3	388.1	425.8	486.0	539.2	20- 30	544.7	1586	90.4,90.4
40	81.90	103.3	99.43	82.33	54.12	39.61	39.49	51.20	30- 40	142.9	1729	98.6,98.6
50	3.193	4.132	3.430	2.895	1.185	1.115	1.101	1.738	40- 50	16.92	1746	99.6,99.6
60	0.1329	0.1609	0.1361	0.0779	0.0093	0.0284	0.0616	0.0684	50- 60	0.5924	1746	99.6,99.6
70	0	0.0000	0	0	0	0	0	0	60- 70	0.0185	1746	99.6,99.6
80	0	0	0	0	0	0	0	0	70- 80	0.0000	1746	99.6,99.6
90	0	0	0	0	0	0	0	0	80- 90	0	1746	99.6,99.6
100	0	0	0	0	0	0	0	0	90-100	0	1746	99.6,99.6
110	0	0	0	0	0	0	0	0	100-110	0	1746	99.6,99.6
120	0	0	0	0	0	0.0000	0	0	110-120	0.0000	1746	99.6,99.6
130	0.1080	0.1510	0.2224	0.2147	0.3266	0.3187	0.2826	0.2573	120-130	0.0545	1746	99.6,99.6
140	1.164	1.257	1.389	1.437	1.526	1.449	1.358	1.263	130-140	0.5363	1747	99.6,99.6
150	3.258	3.369	3.570	3.638	3.727	3.564	3.396	3.236	140-150	1.436	1748	99.7,99.7
160	5.906	5.958	6.147	6.206	6.294	6.086	5.902	5.739	150-160	2.157	1750	99.8,99.8
170	8.388	8.395	8.496	8.513	8.704	8.415	8.224	8.131	160-170	2.016	1752	100,100
180	9.839	9.677	9.613	9.578	9.882	9.686	9.599	9.570	170-180	0.8540	1753	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

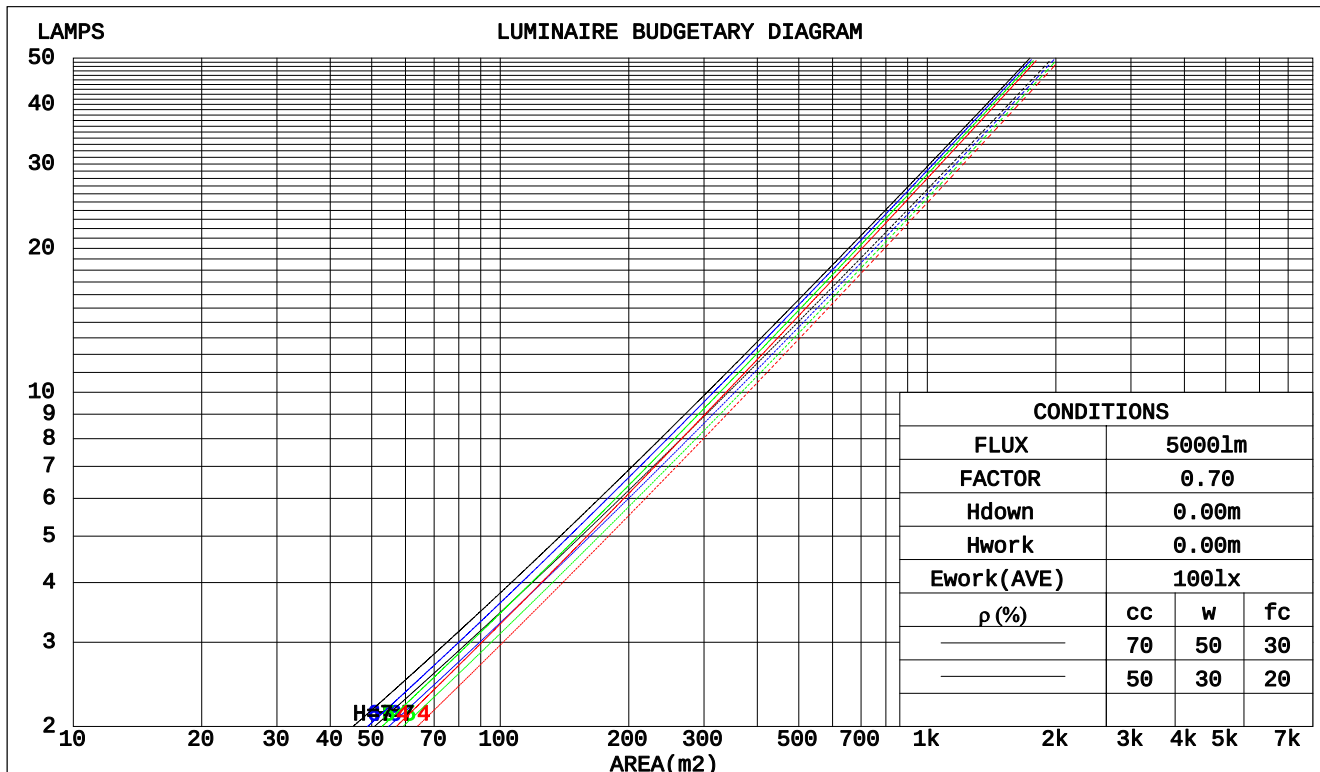
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-04-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
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: Dot24-3000k-RA90-48D-24W	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	1.12	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	.91	.87	.94	.90	.86	.92	.88	.85	.90	.87	.84	.88	.86	.83	.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	.78	.76	.75
7.0	.83	.78	.74	.82	.77	.74	.81	.77	.73	.80	.76	.73	.78	.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	.72	.67	.64	.71	.67	.64	.70	.67	.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: Dot24-3000k-RA90-48D-24W	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	.122	.071	.023	.112	.065	.021		
2.0	.145	.079	.024	.139	.077	.024	.128	.071	.022	.119	.067	.021	.110	.062	.020		
3.0	.136	.073	.022	.132	.070	.021	.123	.066	.020	.114	.063	.019	.107	.059	.018		
4.0	.129	.067	.020	.125	.065	.019	.118	.062	.019	.110	.059	.018	.104	.056	.017		
5.0	.123	.063	.018	.119	.061	.018	.113	.059	.017	.107	.056	.017	.101	.054	.016		
6.0	.117	.059	.017	.114	.058	.017	.108	.056	.016	.103	.053	.016	.098	.052	.015		
7.0	.112	.055	.016	.109	.054	.016	.104	.053	.015	.099	.051	.015	.095	.049	.015		
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	.194	.194	.194	.165	.165	.165	.113	.113	.113	.065	.065	.065	.021	.021	.021		
1.0	.173	.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	.117	.096	.122	.101	.084	.084	.070	.059	.048	.041	.035	.015	.013	.011		
4.0	.130	.101	.079	.112	.088	.069	.077	.061	.049	.045	.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	.037	.059	.040	.026	.035	.024	.015	.011	.008	.005		
9.0	.095	.060	.037	.081	.052	.032	.056	.037	.023	.033	.022	.014	.011	.007	.004		
10.0	.090	.056	.033	.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: Dot24-3000k-RA90-48D-24W					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	4.3	5.1	4.6	5.3	5.5	4.3	5.1	4.5	5.2	5.4				
3H	4.2	4.9	4.4	5.1	5.3	4.1	4.9	4.4	5.1	5.3				
4H	4.1	4.8	4.4	5.0	5.2	4.1	4.7	4.3	5.0	5.2				
6H	4.0	4.7	4.3	4.9	5.1	4.0	4.6	4.3	4.9	5.1				
8H	4.0	4.6	4.3	4.8	5.1	3.9	4.5	4.2	4.8	5.1				
12H	3.9	4.5	4.2	4.8	5.1	3.9	4.5	4.2	4.7	5.0				
4H 2H	4.1	4.8	4.4	5.0	5.2	4.1	4.7	4.3	5.0	5.2				
3H	3.9	4.5	4.2	4.8	5.1	3.9	4.5	4.2	4.7	5.0				
4H	3.8	4.4	4.2	4.7	5.0	3.8	4.3	4.1	4.6	4.9				
6H	3.7	4.2	4.1	4.5	4.9	3.7	4.2	4.1	4.5	4.8				
8H	3.7	4.1	4.1	4.5	4.8	3.6	4.1	4.0	4.4	4.8				
12H	3.6	4.0	4.0	4.4	4.8	3.6	4.0	4.0	4.4	4.8				
8H 4H	3.7	4.1	4.1	4.5	4.8	3.6	4.1	4.0	4.4	4.8				
6H	3.6	3.9	4.0	4.3	4.7	3.5	3.9	4.0	4.3	4.7				
8H	3.5	3.8	4.0	4.2	4.7	3.5	3.8	3.9	4.2	4.7				
12H	3.4	3.7	3.9	4.2	4.6	3.4	3.7	3.9	4.1	4.6				
12H 4H	3.6	4.0	4.0	4.4	4.8	3.6	4.0	4.0	4.4	4.8				
6H	3.5	3.8	4.0	4.2	4.7	3.5	3.8	3.9	4.2	4.7				
8H	3.4	3.7	3.9	4.2	4.6	3.4	3.7	3.9	4.1	4.6				
Variations with the observer position at spacings:														
S = 1.0H	+ 4.0 / -32.0					+ 3.7 / -31.4								
1.5H	+ 6.8 / -25.5					+ 6.4 / -25.7								
2.0H	+ 8.0 / -40.4					+ 8.5 / -30.1								

CIE Pub.117 Corrected 1753 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.0)

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: Dot24-3000k-RA90-48D-24W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

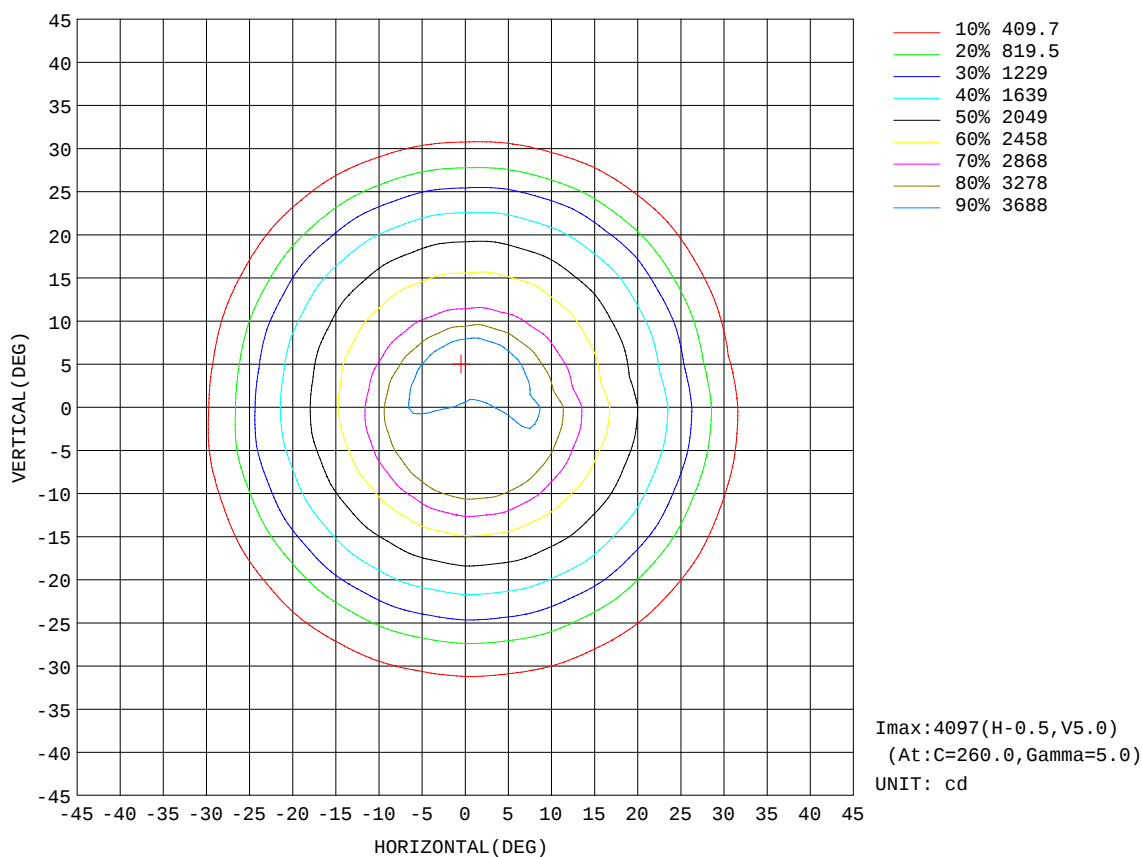
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	91	85	82	90	85	81	89	84	81	78
0.80	98	92	89	97	92	89	96	92	89	85
1.00	101	96	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	107	103	100	106	102	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	108	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: Dot24-3000k-RA90-48D-24W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

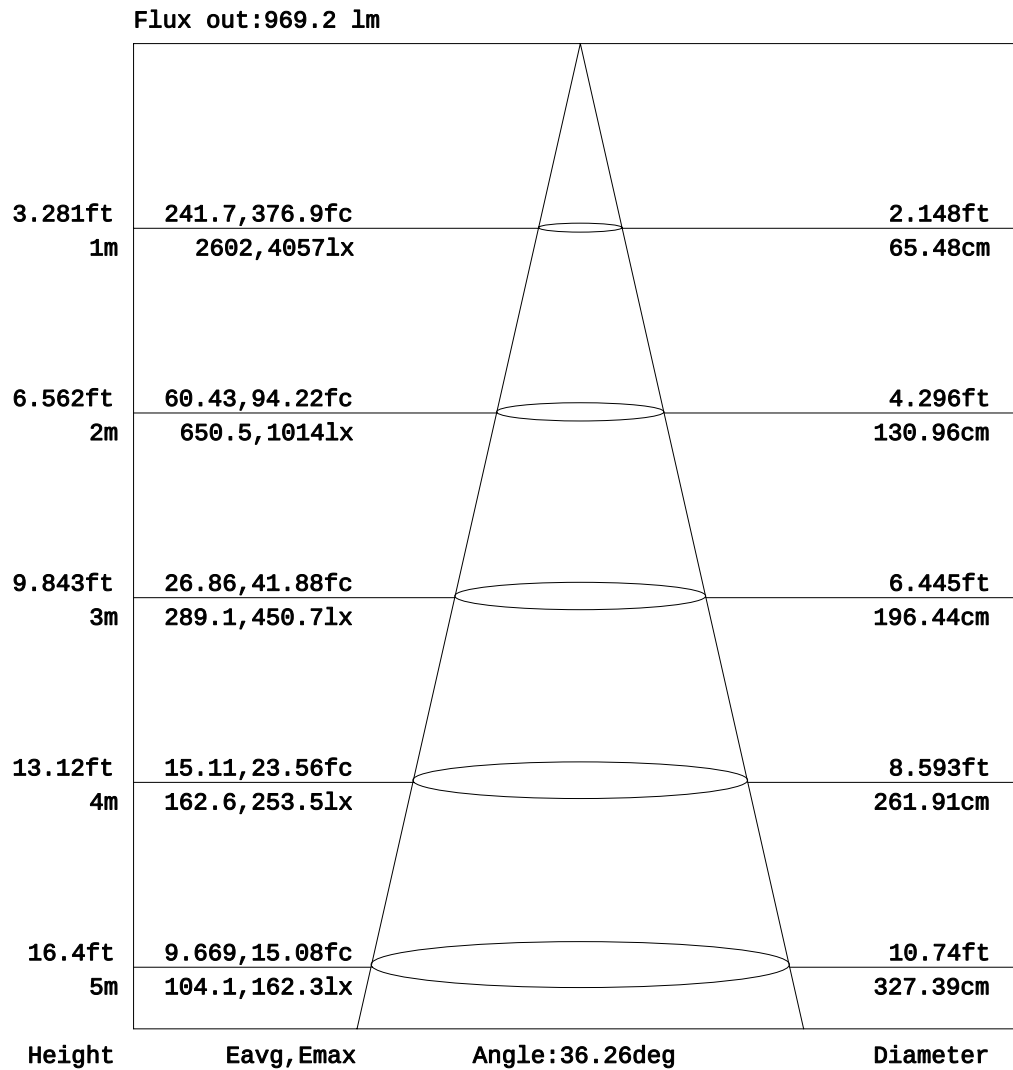


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-04-25

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: Dot24-3000k-RA90-48D-24W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:



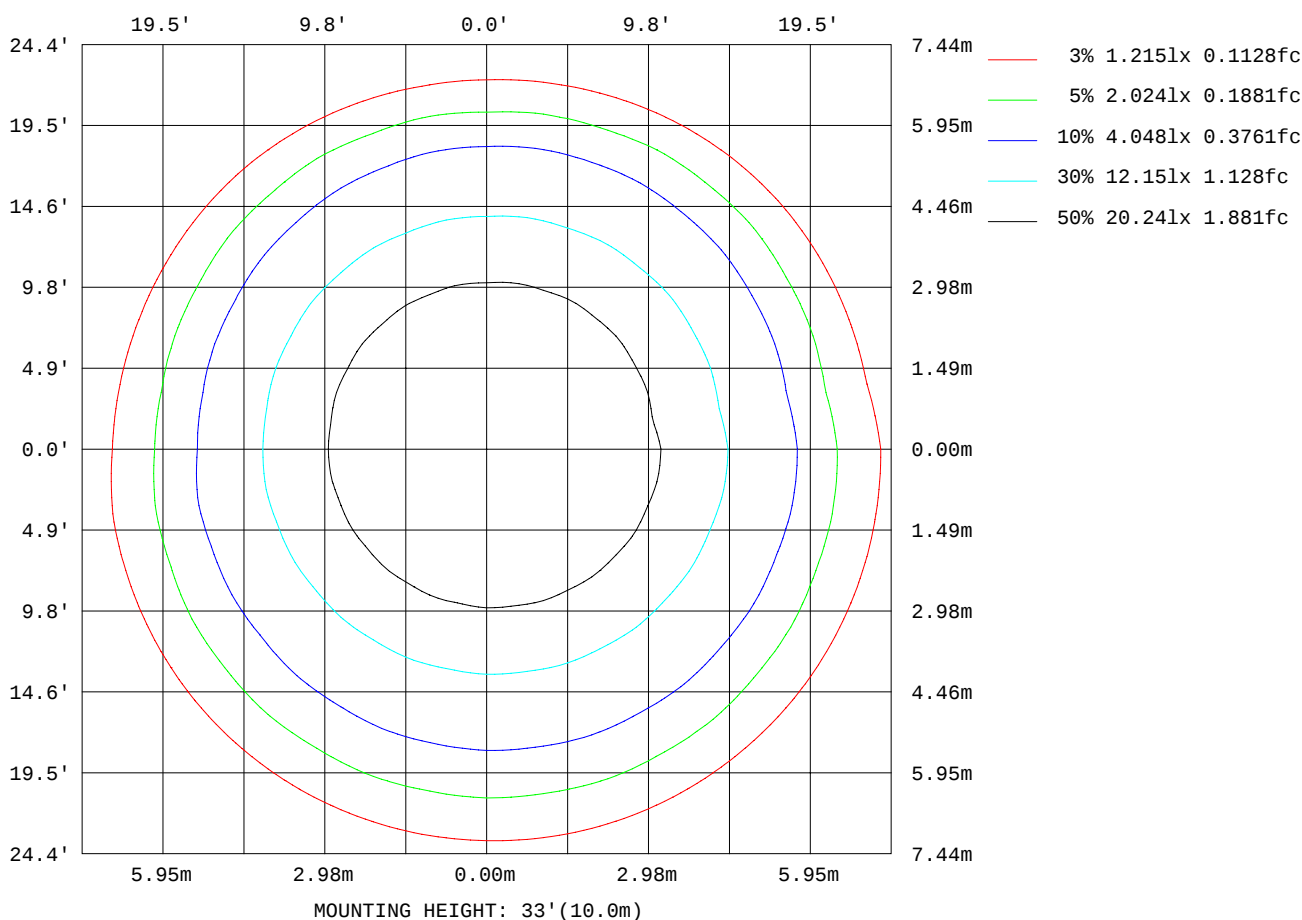
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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: Dot24-3000k-RA90-48D-24W	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: Dot24-3000k-RA90-48D-24W	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	1753.31	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	11	10	12	13	15	13	13	12	13	12	12	12	13	11	11	9	8	7	7
60	3	2	3	2	4	3	4	3	4	3	3	2	2	1	2	1	1	0	0
65	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	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	15	200	---	500
Category 2	65 to 90	1	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: Dot24-3000k-RA90-48D-24W	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	1753.31	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	11	10	12	13	15	13	13	12	13	12	12	12	13	11	11	9	8	7	7
60	3	2	3	2	4	3	4	3	4	3	3	2	2	1	2	1	1	0	0
65	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	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	15	1000	1500	200	500
65 to 90	1	1000	1500	200	500

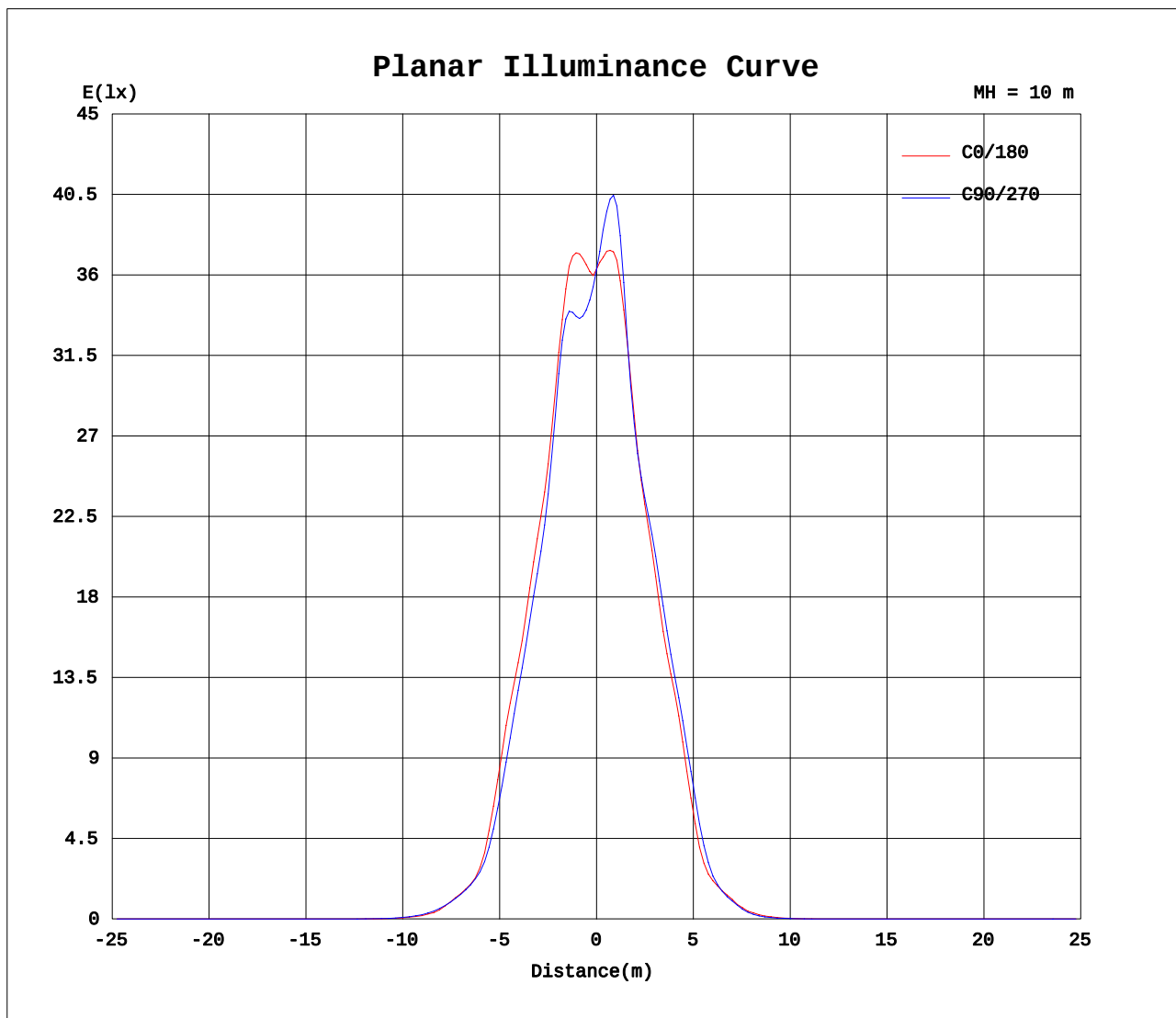
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

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: Dot24-3000k-RA90-48D-24W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	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	3631	3631	3620	3626	3618	3626	3618	3627	3617	3626	3616	3620	3610	3611	3602	3599	3592	3585	3631
5	3760	3689	3633	3575	3523	3465	3422	3387	3381	3396	3429	3466	3509	3540	3570	3596	3631	3671	3773
10	3508	3510	3483	3485	3463	3466	3436	3427	3395	3388	3344	3329	3273	3253	3206	3211	3181	3196	3163
15	2648	2642	2600	2596	2552	2548	2504	2496	2449	2445	2407	2411	2380	2390	2374	2394	2386	2414	2432
20	2047	2039	1996	1991	1953	1943	1901	1892	1856	1847	1813	1813	1788	1795	1774	1781	1766	1787	1787
25	1454	1441	1393	1380	1322	1309	1250	1234	1192	1178	1149	1152	1131	1140	1124	1142	1133	1158	1109
30	571	577	553	558	541	544	524	523	502	496	476	473	454	452	433	432	415	414	388
35	260	260	263	264	265	263	263	259	256	251	249	245	242	238	234	228	222	218	201
40	81.9	88.3	93.4	101	102	104	103	103	100	99.4	96.2	94.5	90.0	86.2	78.4	75.1	70.5	68.4	54.1
45	18.7	21.8	23.2	25.7	26.6	28.1	27.6	27.9	26.4	25.9	24.5	24.2	22.9	22.3	20.0	18.3	16.0	14.9	12.8
50	3.19	3.51	3.69	4.02	4.11	4.15	3.75	3.76	3.49	3.43	3.24	3.30	3.12	3.08	2.71	2.55	2.08	2.05	1.18
55	0.61	0.60	0.71	0.77	0.84	0.77	0.76	0.70	0.73	0.68	0.71	0.70	0.72	0.64	0.63	0.51	0.48	0.41	0.38
60	0.13	0.09	0.14	0.11	0.18	0.15	0.19	0.14	0.18	0.14	0.16	0.10	0.12	0.06	0.10	0.04	0.07	0.02	0.01
65	0.03	0.00	0.03	0.00	0.05	0.00	0.05	0.00	0.04	0.00	0.04	0.00	0.04	0.00	0.02	0.00	0.01	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	0.01	0.00	0.01	0.00	0.01	0.09
130	0.11	0.16	0.11	0.16	0.12	0.18	0.15	0.20	0.17	0.22	0.18	0.23	0.19	0.24	0.19	0.23	0.18	0.22	0.33
135	0.50	0.54	0.51	0.56	0.55	0.60	0.58	0.63	0.62	0.68	0.65	0.70	0.67	0.71	0.68	0.70	0.66	0.68	0.79
140	1.16	1.20	1.18	1.24	1.23	1.29	1.29	1.34	1.33	1.39	1.39	1.43	1.41	1.45	1.43	1.44	1.40	1.41	1.53
145	2.08	2.12	2.12	2.16	2.17	2.22	2.23	2.30	2.31	2.37	2.38	2.41	2.41	2.43	2.41	2.42	2.39	2.39	2.52
150	3.26	3.28	3.29	3.32	3.34	3.40	3.42	3.49	3.51	3.57	3.59	3.63	3.62	3.65	3.63	3.63	3.61	3.60	3.73
155	4.59	4.62	4.61	4.64	4.65	4.70	4.72	4.79	4.82	4.87	4.90	4.93	4.94	4.96	4.95	4.95	4.92	4.92	5.03
160	5.91	5.92	5.91	5.93	5.93	5.98	6.00	6.06	6.09	6.15	6.16	6.19	6.19	6.21	6.20	6.21	6.19	6.20	6.29
165	7.21	7.22	7.19	7.22	7.21	7.26	7.26	7.31	7.33	7.38	7.38	7.42	7.42	7.45	7.43	7.45	7.43	7.45	7.58
170	8.39	8.42	8.36	8.42	8.37	8.42	8.39	8.44	8.43	8.50	8.47	8.52	8.49	8.52	8.50	8.53	8.50	8.53	8.70
175	9.29	9.34	9.26	9.29	9.20	9.25	9.20	9.26	9.21	9.27	9.23	9.29	9.24	9.28	9.23	9.28	9.26	9.33	9.55
180	9.84	9.84	9.75	9.75	9.67	9.68	9.64	9.64	9.61	9.61	9.59	9.59	9.58	9.58	9.58	9.58	9.59	9.66	9.88

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: Dot24-3000k-RA90-48D-24W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(°) \ γ (°)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	3631	3620	3626	3618	3626	3618	3627	3617	3626	3616	3620	3610	3611	3602	3599	3592	3585		
5	3808	3847	3882	3932	3982	4049	4088	4103	4093	4073	4073	4081	4074	4008	3928	3848	3782		
10	3122	3128	3082	3104	3065	3107	3070	3144	3121	3216	3193	3252	3256	3306	3308	3350	3347		
15	2428	2459	2454	2483	2476	2501	2492	2511	2505	2529	2531	2561	2559	2579	2565	2580	2555		
20	1784	1821	1828	1872	1880	1913	1912	1943	1941	1977	1978	2014	2005	2025	1996	1998	1956		
25	1110	1157	1172	1222	1219	1268	1259	1303	1295	1344	1343	1393	1389	1415	1395	1404	1363		
30	384	397	400	421	430	453	459	483	486	511	516	539	534	544	528	529	506		
35	194	189	185	186	187	186	184	183	185	191	200	210	220	228	233	234	236		
40	47.9	46.0	42.2	40.8	38.5	38.3	37.5	39.3	39.5	42.5	43.9	47.8	49.3	53.1	55.6	62.7	66.9		
45	11.1	10.1	8.90	8.28	7.76	7.92	7.92	8.36	8.27	8.65	8.90	9.73	10.1	10.9	11.4	12.6	13.6		
50	1.03	1.14	1.11	1.13	1.10	1.13	1.06	1.09	1.10	1.29	1.41	1.58	1.60	1.87	1.99	2.36	2.45		
55	0.39	0.32	0.36	0.33	0.37	0.31	0.36	0.32	0.36	0.33	0.41	0.38	0.40	0.35	0.41	0.39	0.47		
60	0.06	0.00	0.06	0.00	0.06	0.00	0.05	0.01	0.06	0.02	0.08	0.03	0.09	0.05	0.10	0.06	0.11		
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.00	0.02	0.00	0.03		
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	0.05	0.10	0.05	0.10	0.07	0.11	0.07	0.10	0.06	0.10	0.05	0.09	0.03	0.08	0.02	0.06	0.00		
130	0.28	0.33	0.29	0.34	0.30	0.35	0.30	0.34	0.28	0.32	0.26	0.30	0.24	0.27	0.22	0.24	0.19		
135	0.75	0.78	0.74	0.78	0.74	0.77	0.73	0.75	0.70	0.72	0.66	0.69	0.63	0.65	0.59	0.62	0.58		
140	1.48	1.49	1.46	1.47	1.43	1.44	1.40	1.40	1.36	1.37	1.31	1.31	1.26	1.27	1.23	1.24	1.21		
145	2.47	2.47	2.43	2.42	2.38	2.37	2.33	2.32	2.27	2.25	2.20	2.19	2.14	2.14	2.10	2.10	2.09		
150	3.68	3.65	3.60	3.58	3.54	3.52	3.47	3.45	3.40	3.36	3.31	3.29	3.24	3.23	3.21	3.21	3.20		
155	4.96	4.93	4.89	4.85	4.80	4.78	4.72	4.69	4.63	4.60	4.54	4.51	4.48	4.46	4.45	4.46	4.47		
160	6.20	6.18	6.12	6.11	6.06	6.04	5.98	5.95	5.90	5.86	5.81	5.79	5.75	5.73	5.71	5.72	5.72		
165	7.47	7.44	7.37	7.35	7.28	7.27	7.20	7.19	7.13	7.11	7.05	7.04	7.00	7.01	6.98	7.00	6.99		
170	8.60	8.56	8.46	8.45	8.37	8.38	8.30	8.30	8.22	8.22	8.16	8.17	8.12	8.14	8.12	8.16	8.14		
175	9.45	9.43	9.31	9.33	9.24	9.26	9.18	9.20	9.13	9.14	9.07	9.09	9.04	9.07	9.03	9.09	9.06		
180	9.81	9.81	9.71	9.71	9.66	9.67	9.62	9.62	9.60	9.60	9.58	9.58	9.57	9.58	9.57	9.59	9.65		

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: