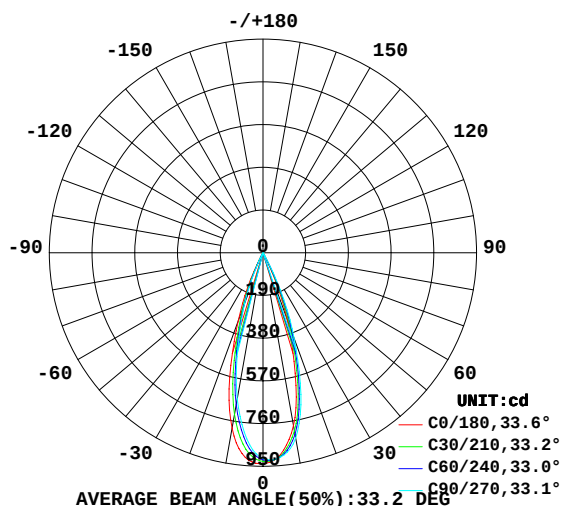


LUMINAIRE PHOTOMETRIC TEST REPORT

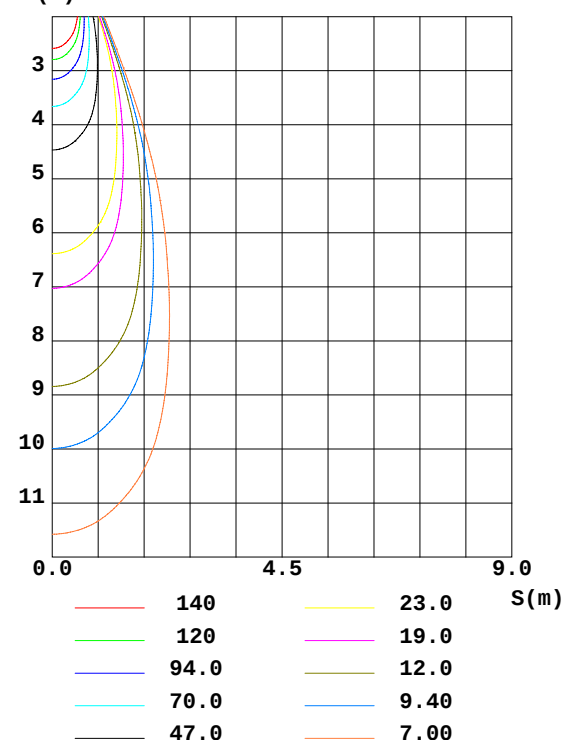
NAME: CL-Dot03-D9 3000K-RA90-4W-48D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 75.14 lm/W			
MODEL		I _{max} (cd)	938.6	S/MH(C0/180)	0.53
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	0.59
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	288.54	η UP, DN(C0-180)	0.2, 56.6
NOMINAL FLUX(lm)	288.538	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 43.1
LAMPS INSIDE	1	η up(%)	0.3	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	24	η down(%)	99.7	CIBSE SHR MAX	0.55

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: 2022-05-04

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	781.6	812.4	837.3	831.0	792.4	706.2	660.5	681.4	0- 10	80.21	80.21	27.8, 27.8
20	312.6	368.6	404.3	398.6	321.0	257.0	239.1	247.3	10- 20	147.5	227.7	78.9, 78.9
30	7.647	12.53	21.84	24.10	14.44	7.364	5.588	4.577	20- 30	57.69	285.4	98.9, 98.9
40	0.2696	0.3187	0.3014	0.6846	1.080	0.9721	0.7840	0.4555	30- 40	1.689	287.0	99.5, 99.5
50	0.0711	0.0613	0.0563	0.2761	0.6602	0.5403	0.4814	0.2123	40- 50	0.3187	287.4	99.6, 99.6
60	0	0	0	0.0921	0.3724	0.2571	0.1892	0.0402	50- 60	0.1759	287.5	99.7, 99.7
70	0	0	0	0	0	0	0	0	60- 70	0.0321	287.6	99.7, 99.7
80	0	0	0	0	0	0	0	0	70- 80	0	287.6	99.7, 99.7
90	0	0	0	0	0	0	0	0	80- 90	0	287.6	99.7, 99.7
100	0	0	0	0	0	0	0	0	90-100	0	287.6	99.7, 99.7
110	0	0	0	0	0	0	0	0	100-110	0	287.6	99.7, 99.7
120	0	0	0	0	0	0	0	0	110-120	0	287.6	99.7, 99.7
130	0	0	0	0	0	0	0	0	120-130	0	287.6	99.7, 99.7
140	0	0.0000	0.0000	0.0000	0.0238	0.0214	0.0327	0.0590	130-140	0.0015	287.6	99.7, 99.7
150	0.4383	0.3658	0.3451	0.3445	0.4489	0.4814	0.5187	0.5287	140-150	0.1164	287.7	99.7, 99.7
160	1.075	0.9886	0.9585	0.9508	1.048	1.093	1.113	1.109	150-160	0.3314	288.0	99.8, 99.8
170	1.595	1.541	1.520	1.489	1.581	1.572	1.562	1.562	160-170	0.3615	288.4	99.9, 99.9
180	1.859	1.824	1.803	1.791	1.864	1.826	1.803	1.793	170-180	0.1593	288.5	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

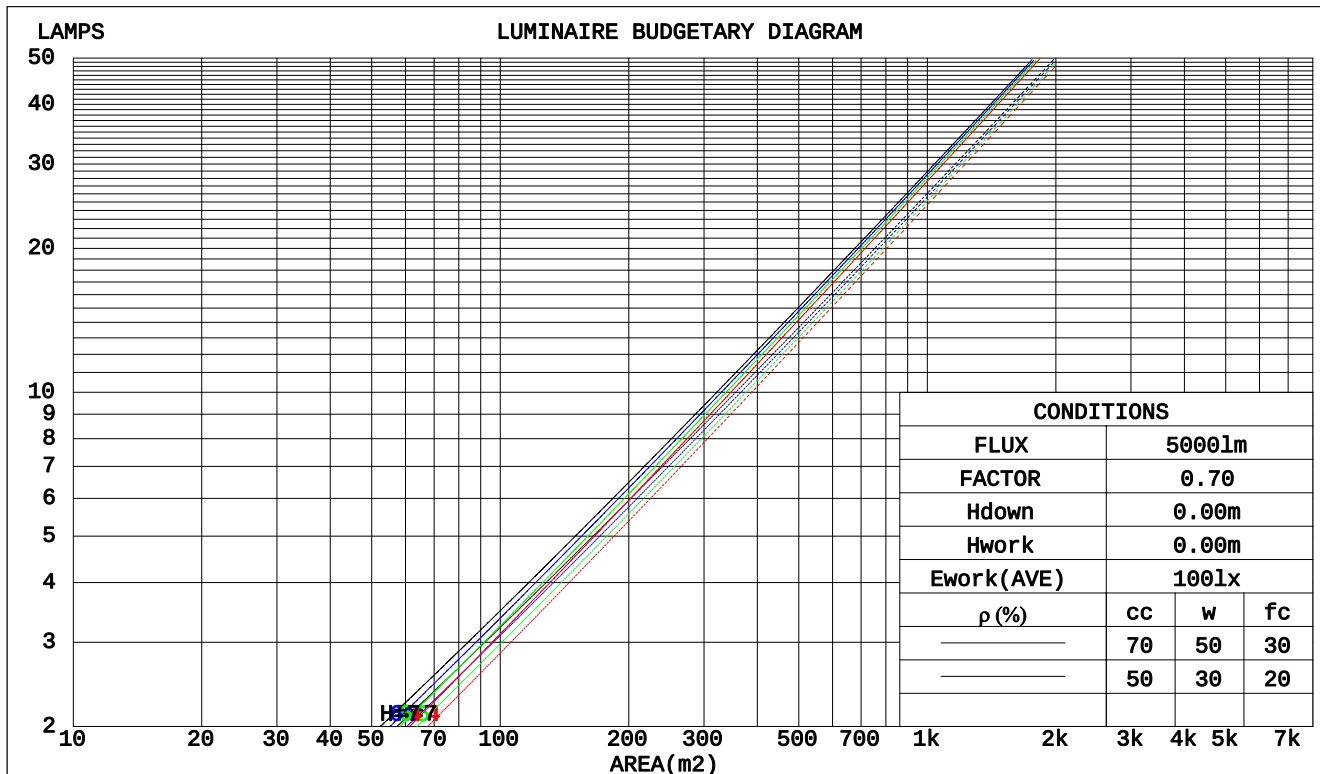
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-05-04

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: DOT03-D9-3000K-12D-RA90	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	1.07	1.07	1.05	1.04	1.03	1.02	1.01	.99	.99	.98	.96
2.0	1.07	1.04	1.02	1.06	1.03	1.01	1.03	1.00	.98	.00	.98	.96	.97	.96	.94	.93
3.0	1.03	.99	.96	1.01	.98	.95	.99	.96	.94	.97	.94	.92	.94	.93	.91	.90
4.0	.99	.95	.91	.97	.94	.91	.95	.92	.90	.94	.91	.89	.92	.90	.88	.87
5.0	.95	.91	.88	.94	.90	.87	.92	.89	.86	.91	.88	.86	.89	.87	.85	.84
6.0	.91	.87	.84	.91	.87	.84	.89	.86	.83	.88	.85	.83	.87	.84	.82	.81
7.0	.88	.84	.81	.88	.84	.81	.86	.83	.80	.85	.82	.80	.84	.82	.80	.79
8.0	.85	.81	.78	.85	.81	.78	.84	.80	.78	.83	.80	.77	.82	.79	.77	.76
9.0	.83	.78	.76	.82	.78	.75	.81	.78	.75	.81	.77	.75	.80	.77	.75	.74
10.0	.80	.76	.73	.80	.76	.73	.79	.75	.73	.78	.75	.73	.78	.75	.73	.72



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-05-04

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: DOT03-D9-3000K-12D-RA90	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	.139	.079	.025	.132	.075	.024	.119	.068	.022	.108	.062	.020	.097	.056	.018		
2.0	.128	.070	.022	.123	.068	.021	.113	.063	.019	.103	.058	.018	.094	.053	.017		
3.0	.120	.064	.019	.115	.062	.019	.107	.058	.018	.099	.054	.017	.091	.050	.016		
4.0	.113	.059	.017	.109	.057	.017	.101	.054	.016	.095	.051	.015	.088	.048	.015		
5.0	.106	.054	.016	.103	.053	.015	.097	.050	.015	.091	.048	.014	.085	.046	.014		
6.0	.101	.051	.014	.098	.050	.014	.093	.047	.014	.088	.046	.013	.083	.044	.013		
7.0	.096	.048	.013	.094	.047	.013	.089	.045	.013	.085	.043	.013	.080	.042	.012		
8.0	.092	.045	.013	.090	.044	.012	.086	.043	.012	.082	.041	.012	.078	.040	.012		
9.0	.088	.043	.012	.086	.042	.012	.082	.041	.012	.079	.040	.011	.076	.038	.011		
10.0	.085	.041	.011	.083	.040	.011	.080	.039	.011	.077	.038	.011	.074	.037	.011		

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	.171	.160	.150	.146	.138	.130	.100	.095	.090	.058	.055	.052	.018	.018	.017	
2.0	.153	.135	.120	.131	.116	.104	.090	.081	.073	.052	.047	.043	.017	.015	.014	
3.0	.138	.116	.098	.118	.100	.085	.081	.069	.060	.047	.041	.035	.015	.013	.012	
4.0	.126	.101	.081	.108	.087	.071	.074	.061	.050	.043	.035	.029	.014	.012	.010	
5.0	.115	.088	.068	.099	.076	.059	.068	.053	.042	.040	.031	.025	.013	.010	.008	
6.0	.107	.078	.058	.092	.068	.051	.063	.048	.036	.037	.028	.021	.012	.009	.007	
7.0	.099	.070	.050	.085	.061	.043	.059	.043	.031	.034	.025	.018	.011	.008	.006	
8.0	.093	.064	.043	.080	.055	.038	.055	.039	.027	.032	.023	.016	.010	.007	.005	
9.0	.087	.058	.038	.075	.050	.033	.052	.035	.024	.030	.021	.014	.010	.007	.005	
10.0	.083	.053	.034	.071	.046	.029	.049	.033	.021	.029	.019	.012	.009	.006	.004	

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 0
 Test Date: 2022-05-04

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: DOT03-D9-3000K-12D-RA90					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					-25.0	-24.4	-24.8	-24.2	-24.1	-21.9	-21.2	-21.7	-21.1	-20.9
3H					-25.2	-24.6	-24.9	-24.4	-24.2	-22.0	-21.4	-21.8	-21.2	-21.0
4H					-25.3	-24.7	-25.0	-24.5	-24.3	-22.1	-21.5	-21.8	-21.3	-21.1
6H					-25.4	-24.8	-25.1	-24.6	-24.3	-22.2	-21.6	-21.9	-21.4	-21.2
8H					-25.4	-24.9	-25.1	-24.6	-24.4	-22.2	-21.7	-21.9	-21.4	-21.2
12H					-25.4	-24.9	-25.1	-24.7	-24.4	-22.3	-21.8	-22.0	-21.5	-21.2
4H 2H					-25.3	-24.7	-25.0	-24.5	-24.3	-22.1	-21.5	-21.8	-21.3	-21.1
3H					-25.4	-24.9	-25.1	-24.7	-24.4	-22.3	-21.8	-22.0	-21.5	-21.2
4H					-25.5	-25.1	-25.2	-24.8	-24.5	-22.4	-21.9	-22.0	-21.6	-21.3
6H					-25.6	-25.2	-25.3	-24.9	-24.5	-22.5	-22.1	-22.1	-21.7	-21.4
8H					-25.7	-25.3	-25.3	-25.0	-24.6	-22.5	-22.1	-22.1	-21.8	-21.4
12H					-25.8	-25.4	-25.3	-25.0	-24.6	-22.6	-22.2	-22.2	-21.9	-21.5
8H 4H					-25.7	-25.3	-25.3	-25.0	-24.6	-22.5	-22.1	-22.1	-21.8	-21.4
6H					-25.8	-25.5	-25.4	-25.1	-24.7	-22.6	-22.3	-22.2	-21.9	-21.5
8H					-25.9	-25.6	-25.4	-25.2	-24.7	-22.7	-22.4	-22.3	-22.0	-21.6
12H					-25.9	-25.7	-25.5	-25.2	-24.8	-22.8	-22.5	-22.3	-22.1	-21.6
12H 4H					-25.8	-25.4	-25.3	-25.0	-24.6	-22.6	-22.2	-22.2	-21.9	-21.5
6H					-25.9	-25.6	-25.4	-25.2	-24.7	-22.7	-22.4	-22.3	-22.0	-21.6
8H					-25.9	-25.7	-25.5	-25.2	-24.8	-22.8	-22.5	-22.3	-22.1	-21.6
Variations with the observer position at spacings:														
S = 1.0H					+ 3.6 / - 1.\$					+ 4.8 / - 1.\$				
1.5H					+ 5.8 / - 1.\$					+ 7.3 / - 1.\$				
2.0H					+ 8.6 / - 1.\$					+ 7.1 / - 1.\$				

CIE Pub.117 Corrected 288.5 lm Total Lamp Luminous Flux.(8log(F/F0) = -4.3)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-05-04

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: DOT03-D9-3000K-12D-RA90	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

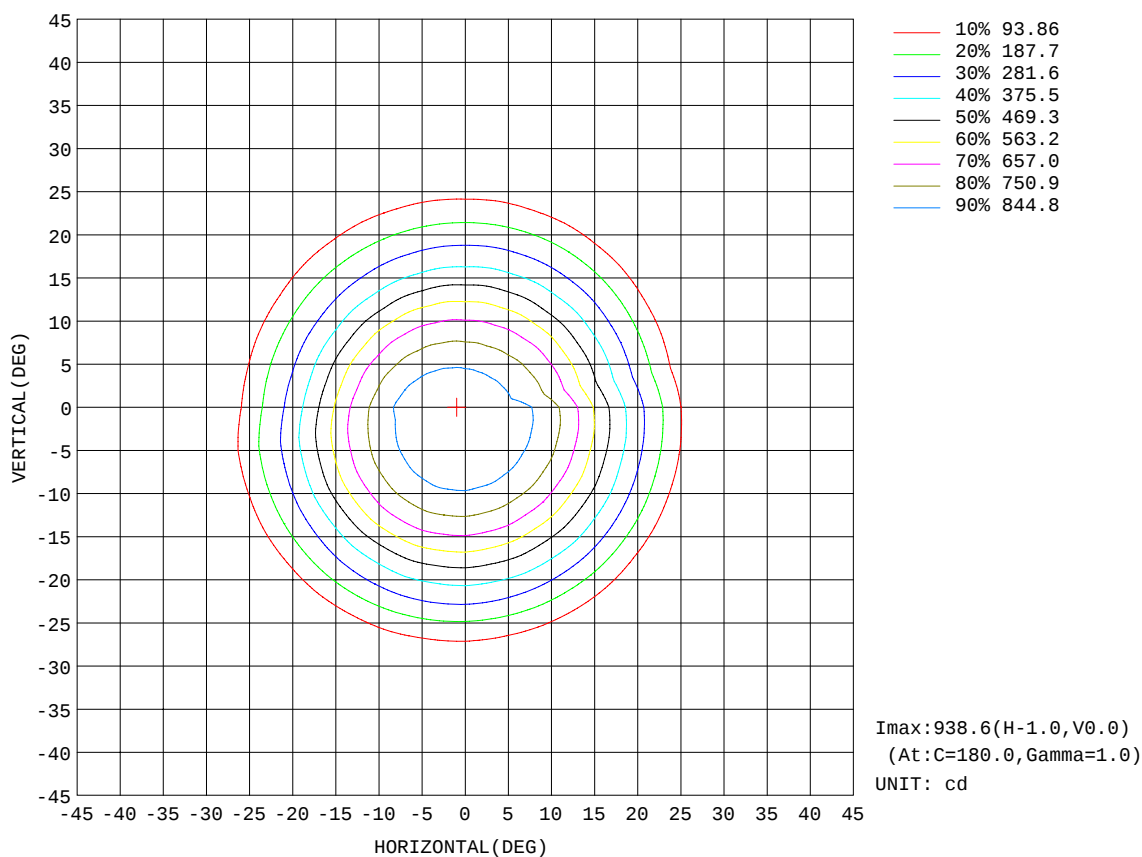
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	91	86	82	91	85	82	90	85	82	79
0.80	98	93	90	98	93	90	96	92	89	86
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	107	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	108	105	104	98
4.00	115	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: 2022-05-04

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: DOT03-D9-3000K-12D-RA90	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

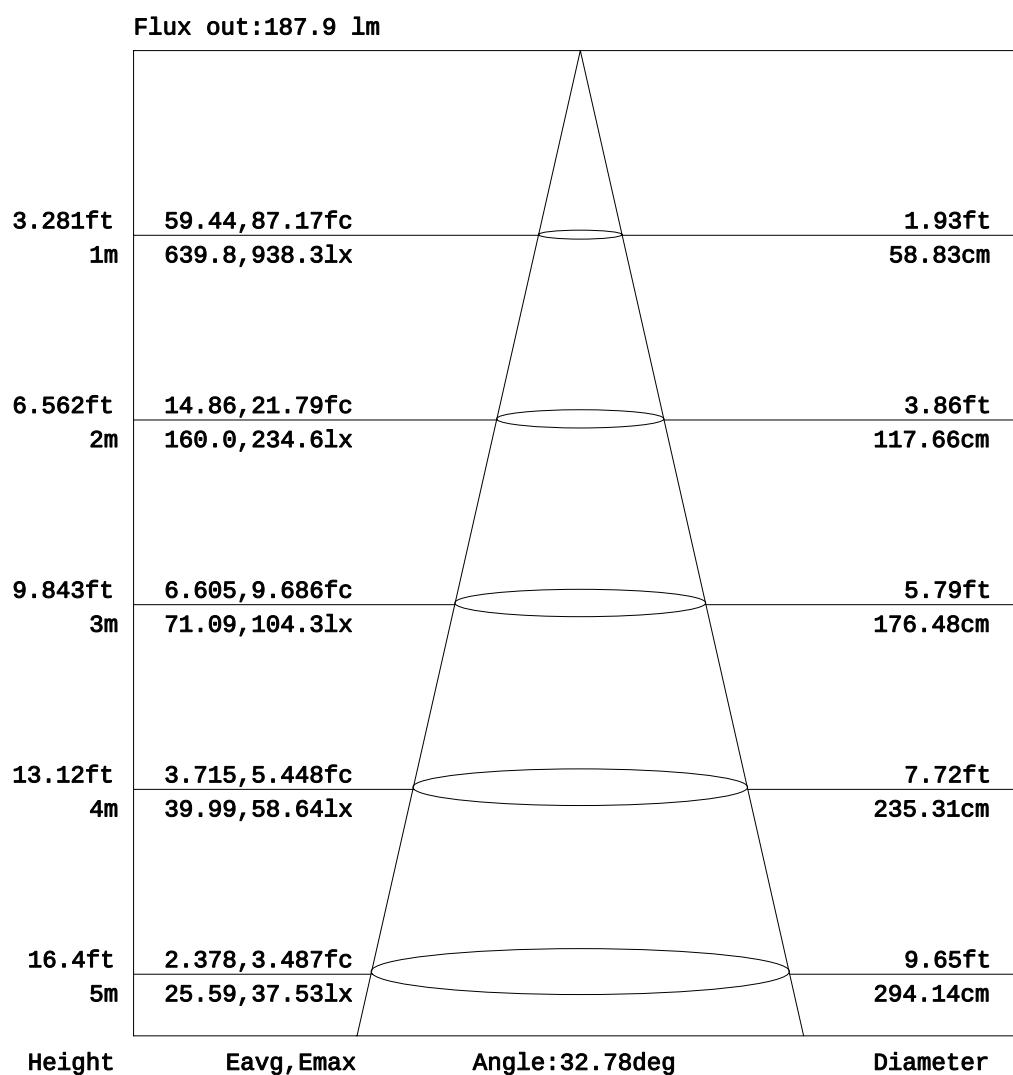


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-05-04

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: DOT03-D9-3000K-12D-RA90	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:



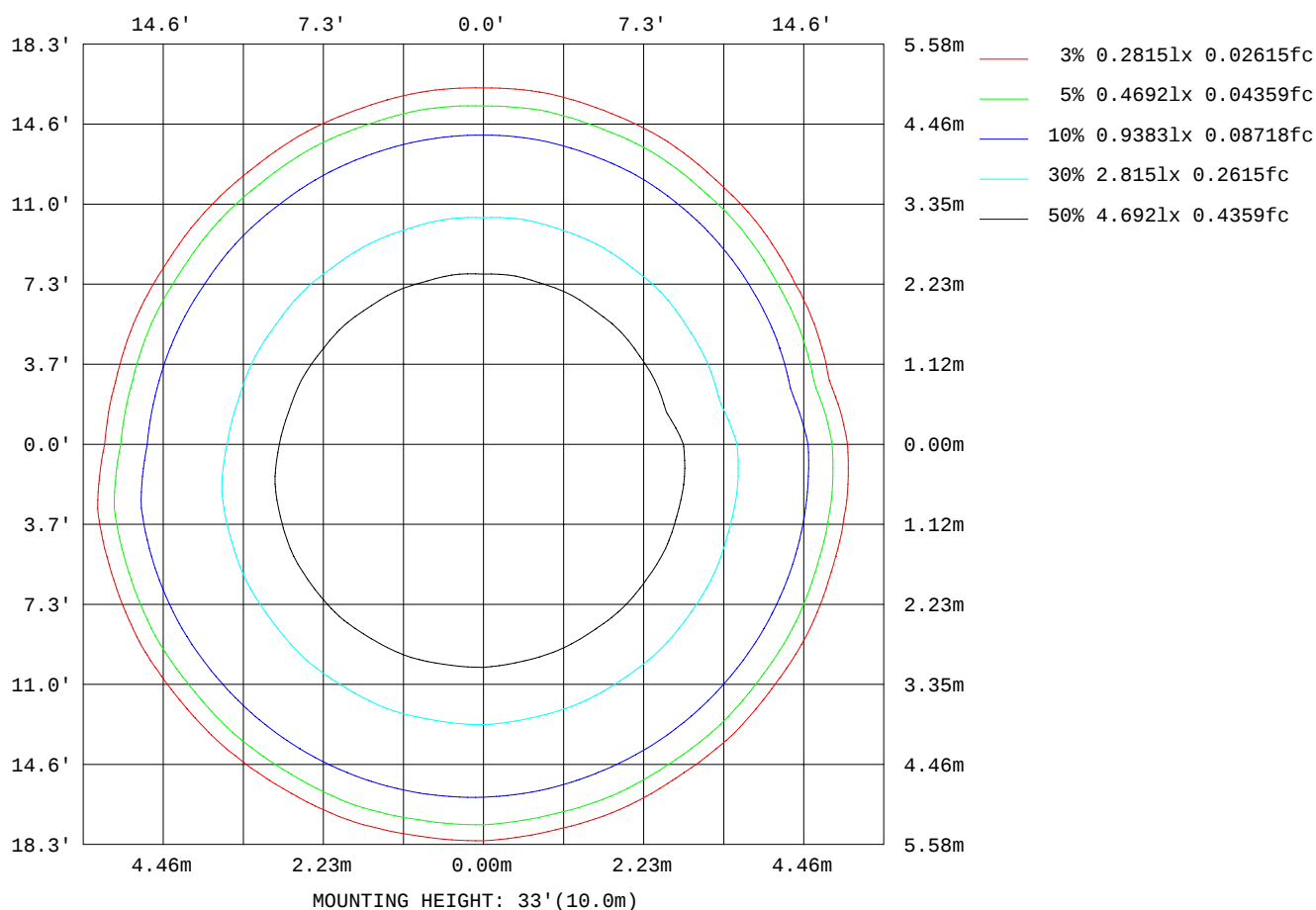
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-05-04

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: DOT03-D9-3000K-12D-RA90	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: 2022-05-04

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: DOT03-D9-3000K-12D-RA90	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	288.538	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	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4	5	7	8	9
60	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	4	6	7	7
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	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	9	200	---	500
Category 2	65 to 90	2	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:2022-05-04

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: DOT03-D9-3000K-12D-RA90	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	288.538	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	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4	5	7	8	9
60	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	4	6	7	7
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	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	9	1000	1500	200	500
65 to 90	2	1000	1500	200	500

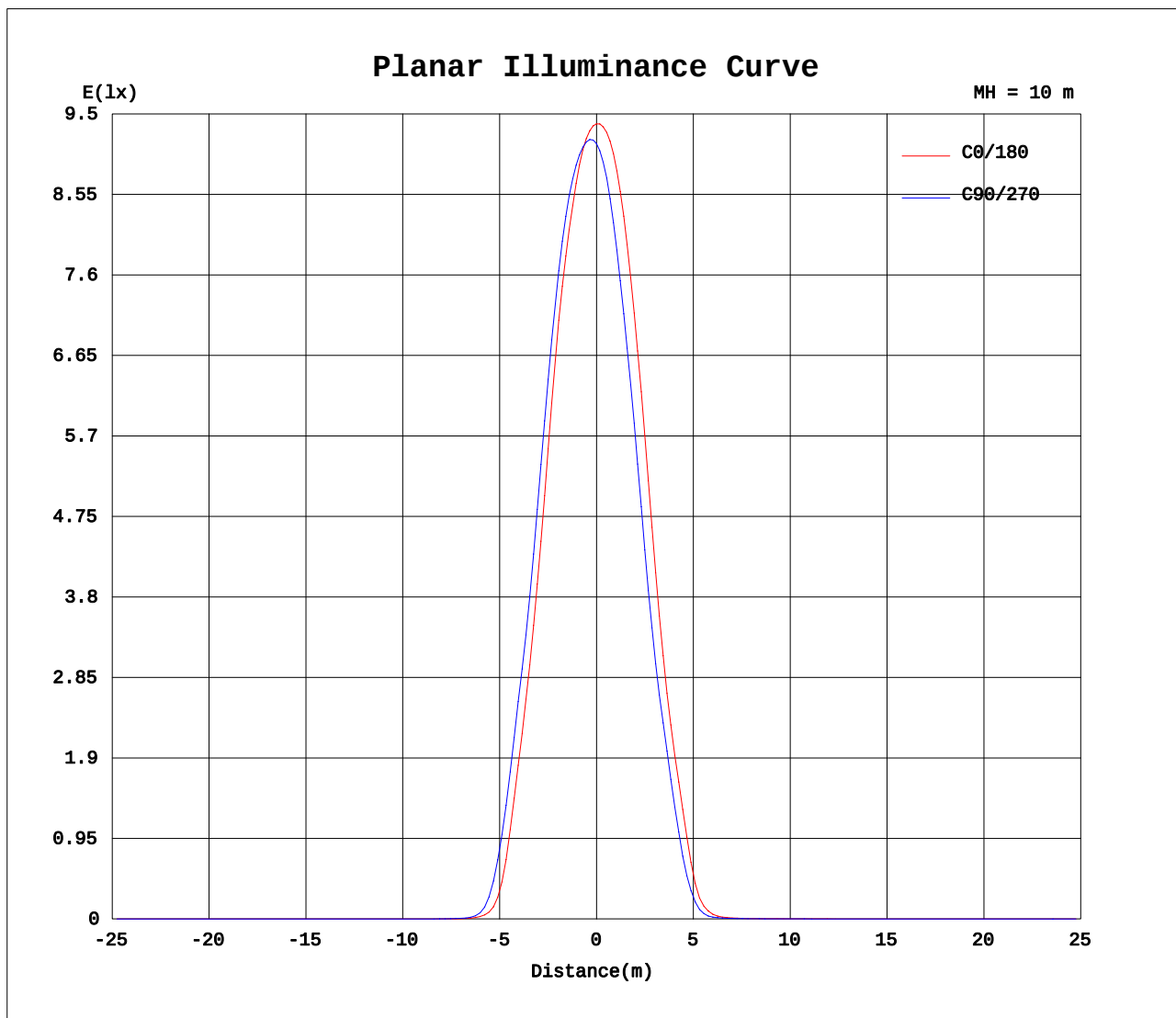
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

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:2022-05-04

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: 2022-05-04

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: DOT03-D9-3000K-12D-RA90	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	938	934	931	928	925	923	921	919	917	915	914	912	912	910	910	909	908	907	938
5	900	903	904	907	908	910	910	912	912	912	911	911	910	908	906	904	900	896	913
10	782	792	795	805	808	817	821	828	831	837	838	841	836	835	827	821	809	799	792
15	554	573	580	598	604	618	623	636	641	652	655	662	658	658	647	639	620	604	574
20	313	326	335	352	361	376	381	392	396	404	405	410	405	404	393	387	371	356	321
25	94.5	106	116	125	136	146	154	164	172	180	185	189	190	189	184	179	172	162	130
30	7.65	8.47	9.06	10.5	11.4	13.6	14.7	17.3	18.7	21.8	22.7	24.4	24.0	24.6	23.6	24.2	22.3	21.2	14.4
35	0.91	0.89	0.98	1.04	1.06	1.14	1.28	1.36	1.43	1.59	1.58	1.72	1.79	1.93	2.09	2.34	2.54	2.74	2.41
40	0.27	0.22	0.27	0.27	0.34	0.30	0.35	0.27	0.33	0.30	0.41	0.46	0.60	0.61	0.76	0.85	0.99	1.07	1.08
45	0.16	0.08	0.14	0.12	0.17	0.13	0.16	0.08	0.14	0.10	0.17	0.17	0.30	0.30	0.45	0.50	0.69	0.79	0.83
50	0.07	0.01	0.07	0.04	0.09	0.03	0.07	0.00	0.06	0.06	0.08	0.07	0.21	0.22	0.34	0.42	0.56	0.65	0.66
55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.12	0.11	0.24	0.30	0.42	0.48	0.51
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	0.06	0.04	0.15	0.19	0.31	0.34	0.37
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	0.07	0.10	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	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
145	0.18	0.20	0.14	0.17	0.11	0.14	0.09	0.13	0.08	0.13	0.08	0.13	0.09	0.13	0.09	0.14	0.09	0.15	0.19
150	0.44	0.47	0.39	0.42	0.35	0.38	0.33	0.36	0.31	0.35	0.30	0.35	0.31	0.36	0.33	0.38	0.34	0.40	0.45
155	0.76	0.78	0.71	0.73	0.66	0.68	0.62	0.66	0.60	0.64	0.60	0.64	0.60	0.66	0.62	0.67	0.64	0.69	0.75
160	1.08	1.10	1.02	1.05	0.98	1.00	0.95	0.98	0.91	0.96	0.91	0.96	0.91	0.97	0.93	0.98	0.94	1.01	1.05
165	1.36	1.38	1.32	1.34	1.27	1.30	1.24	1.27	1.22	1.25	1.20	1.25	1.20	1.26	1.21	1.26	1.23	1.28	1.33
170	1.59	1.62	1.56	1.60	1.53	1.55	1.50	1.53	1.48	1.52	1.46	1.51	1.46	1.51	1.47	1.50	1.47	1.52	1.58
175	1.78	1.81	1.75	1.78	1.73	1.76	1.70	1.74	1.68	1.72	1.67	1.72	1.67	1.71	1.66	1.71	1.67	1.72	1.79
180	1.86	1.86	1.85	1.85	1.82	1.83	1.81	1.81	1.80	1.80	1.79	1.80	1.79	1.79	1.79	1.79	1.79	1.80	1.86

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-05-04

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: DOT03-D9-3000K-12D-RA90	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 (°)																			
0	934	931	928	925	923	921	919	917	915	914	912	912	910	910	909	908	907		
5	900	890	878	868	857	850	841	837	831	831	829	832	834	840	843	850	854		
10	768	752	730	716	697	687	673	668	661	662	661	669	674	689	697	713	723		
15	543	523	496	481	460	452	438	436	430	434	433	442	445	459	466	482	491		
20	298	286	272	260	254	247	242	239	239	239	240	242	245	249	254	260	268		
25	116	103	91.0	86.0	78.7	76.7	71.9	71.9	68.7	69.7	66.4	67.3	63.8	64.8	62.6	65.3	65.8		
30	11.8	10.4	8.67	7.77	6.96	6.66	6.15	6.00	5.59	5.60	5.17	5.05	4.61	4.54	4.50	4.89	5.10		
35	2.33	2.20	2.10	1.90	1.81	1.66	1.60	1.52	1.43	1.33	1.22	1.08	1.01	0.87	0.83	0.72	0.71		
40	1.13	1.11	1.11	0.97	0.98	0.83	0.85	0.82	0.78	0.70	0.66	0.55	0.52	0.39	0.38	0.25	0.26		
45	0.91	0.83	0.84	0.71	0.69	0.58	0.64	0.63	0.59	0.51	0.49	0.40	0.39	0.25	0.23	0.13	0.16		
50	0.73	0.64	0.67	0.56	0.52	0.43	0.49	0.47	0.48	0.41	0.37	0.29	0.28	0.15	0.15	0.05	0.07		
55	0.56	0.46	0.52	0.40	0.38	0.29	0.37	0.35	0.37	0.27	0.26	0.18	0.18	0.06	0.07	0.00	0.00		
60	0.41	0.35	0.37	0.27	0.25	0.16	0.25	0.16	0.19	0.13	0.15	0.09	0.08	0.00	0.00	0.00	0.00		
65	0.00	0.00	0.11	0.10	0.03	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
140	0.00	0.03	0.00	0.04	0.00	0.05	0.02	0.07	0.03	0.08	0.04	0.08	0.04	0.08	0.03	0.07	0.02		
145	0.16	0.21	0.17	0.23	0.20	0.26	0.22	0.27	0.23	0.28	0.25	0.28	0.24	0.28	0.22	0.26	0.20		
150	0.41	0.47	0.44	0.49	0.47	0.52	0.49	0.55	0.52	0.56	0.51	0.56	0.51	0.54	0.49	0.52	0.46		
155	0.72	0.77	0.75	0.80	0.78	0.84	0.81	0.85	0.83	0.87	0.83	0.87	0.82	0.85	0.79	0.82	0.77		
160	1.01	1.08	1.05	1.11	1.08	1.14	1.10	1.15	1.11	1.15	1.10	1.15	1.09	1.13	1.07	1.10	1.04		
165	1.29	1.35	1.31	1.37	1.34	1.39	1.35	1.40	1.36	1.40	1.35	1.39	1.34	1.37	1.32	1.35	1.29		
170	1.53	1.59	1.55	1.60	1.55	1.60	1.56	1.61	1.56	1.61	1.55	1.60	1.54	1.59	1.53	1.57	1.51		
175	1.74	1.79	1.73	1.78	1.73	1.78	1.73	1.77	1.73	1.77	1.73	1.77	1.72	1.76	1.70	1.75	1.69		
180	1.85	1.85	1.83	1.84	1.82	1.82	1.81	1.82	1.80	1.80	1.79	1.80	1.79	1.79	1.78	1.79	1.78		

C Range: 0 - 360DEG
C Interval: 10.0DEG
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Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
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Remarks: