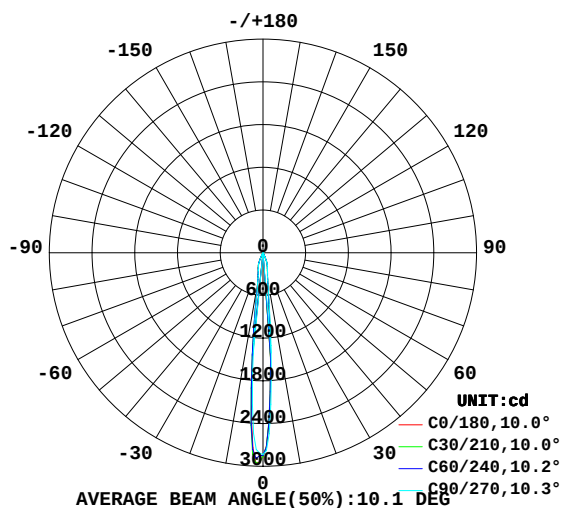


LUMINAIRE PHOTOMETRIC TEST REPORT

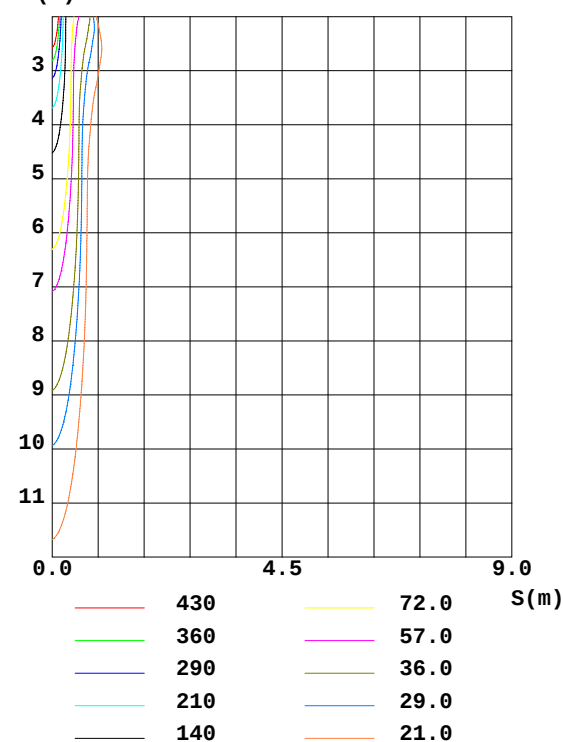
NAME: CL-Dot03-D9 3000K-RA90-4W-12D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 58.00 lm/W			
MODEL		Imax(cd)	2969	S/MH(C0/180)	0.15
NOMINAL POWER(W)	4	LOR(%)	100.0	S/MH(C90/270)	0.16
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	222.73	η UP, DN(C0-180)	0.2, 48.0
NOMINAL FLUX(lm)	222.726	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 51.7
LAMPS INSIDE	1	η up(%)	0.3	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	24	η down(%)	99.7	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:2022-05-04

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	384.9	376.9	393.6	429.6	446.1	452.1	429.7	385.7	0- 10	105.9	105.9	47.5, 47.5
20	179.3	173.8	175.2	185.8	191.8	192.3	190.1	178.4	10- 20	72.20	178.1	80, 80
30	15.52	16.98	17.96	20.28	21.80	22.66	20.02	16.10	20- 30	38.31	216.4	97.2, 97.2
40	0.6166	1.348	0.8511	2.109	2.059	2.886	0.9958	1.300	30- 40	4.893	221.3	99.4, 99.4
50	0.3673	0.3305	0.2620	0.3282	0.5246	0.3799	0.3539	0.3751	40- 50	0.4614	221.7	99.6, 99.6
60	0.0809	0.1132	0.0517	0.1794	0.2498	0.1204	0.0900	0.1013	50- 60	0.2449	222.0	99.7, 99.7
70	0	0	0	0	0	0	0	0	60- 70	0.0332	222.0	99.7, 99.7
80	0	0	0	0	0	0	0	0	70- 80	0	222.0	99.7, 99.7
90	0	0	0	0	0	0	0	0	80- 90	0	222.0	99.7, 99.7
100	0	0	0	0	0	0	0	0	90-100	0	222.0	99.7, 99.7
110	0	0	0	0	0	0	0	0	100-110	0	222.0	99.7, 99.7
120	0	0	0	0	0	0	0	0	110-120	0	222.0	99.7, 99.7
130	0	0	0	0	0	0	0	0	120-130	0	222.0	99.7, 99.7
140	0	0	0	0	0	0	0	0.0000	130-140	0.0000	222.0	99.7, 99.7
150	0.2119	0.2453	0.2412	0.1794	0.1987	0.1723	0.1649	0.2148	140-150	0.0369	222.1	99.7, 99.7
160	0.9574	0.9744	0.9726	0.8989	0.8455	0.8024	0.7971	0.8637	150-160	0.2357	222.3	99.8, 99.8
170	1.279	1.275	1.286	1.258	1.279	1.229	1.203	1.230	160-170	0.3056	222.6	99.9, 99.9
180	1.269	1.269	1.274	1.291	1.284	1.281	1.269	1.260	170-180	0.1214	222.7	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

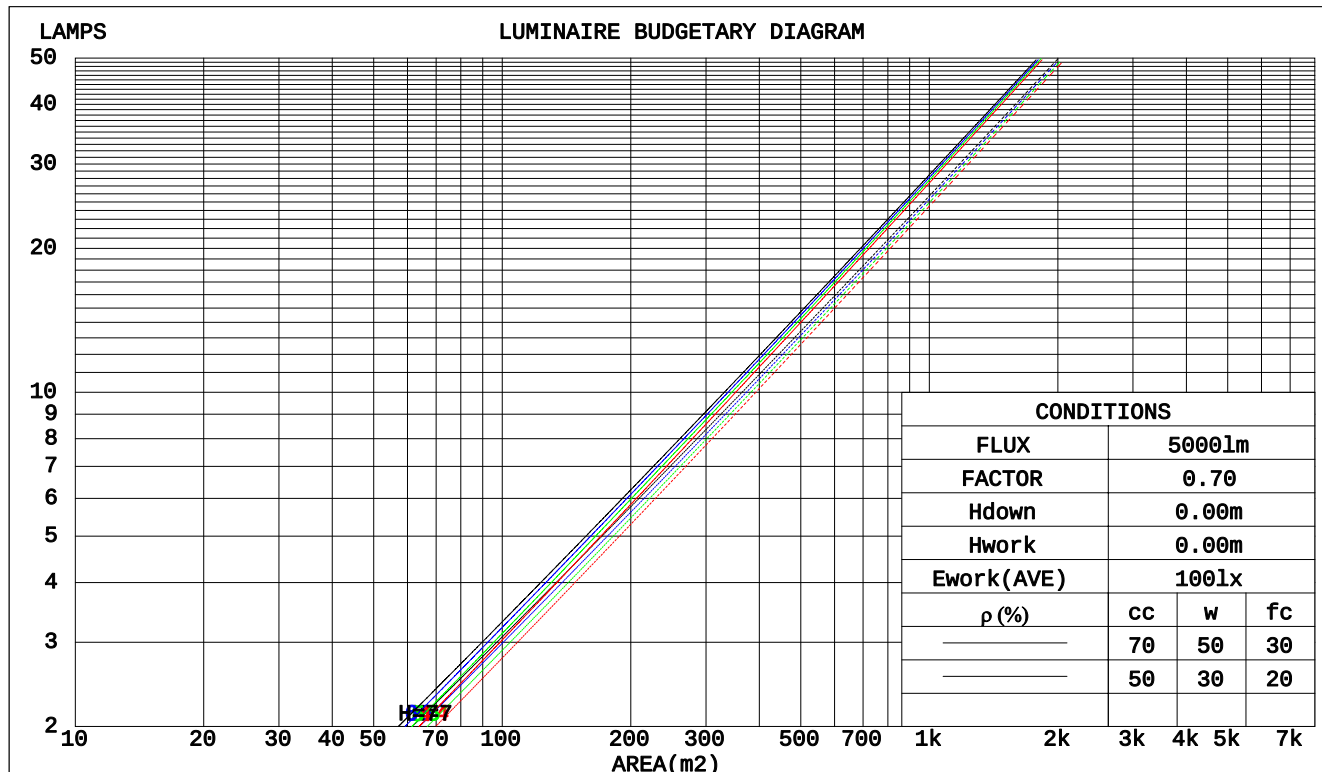
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-05-04

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	1.10	1.11	1.10	1.08	1.07	1.06	1.05	1.03	1.02	1.02	.00	.99	.99	.97
2.0	1.08	1.06	1.03	1.07	1.04	1.02	1.04	1.02	.00	1.01	.99	.98	.98	.97	.96	.94
3.0	1.04	1.01	.98	1.03	.00	.98	1.01	.98	.96	.98	.96	.94	.96	.94	.93	.92
4.0	1.01	.97	.94	.00	.96	.94	.98	.95	.93	.96	.93	.92	.94	.92	.91	.89
5.0	.97	.94	.91	.97	.93	.91	.95	.92	.90	.94	.91	.89	.92	.90	.88	.87
6.0	.95	.91	.88	.94	.90	.88	.93	.90	.87	.91	.89	.87	.90	.88	.86	.85
7.0	.92	.88	.86	.91	.88	.85	.90	.87	.85	.89	.87	.84	.88	.86	.84	.83
8.0	.90	.86	.83	.89	.86	.83	.88	.85	.83	.87	.85	.82	.87	.84	.82	.81
9.0	.87	.84	.81	.87	.84	.81	.86	.83	.81	.86	.83	.81	.85	.82	.80	.80
10.0	.85	.82	.79	.85	.82	.79	.84	.81	.79	.84	.81	.79	.83	.81	.79	.78



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 Coeffcients(WEC)										
0.0																	
1.0	.128	.073	.023	.122	.069	.022	.109	.063	.020	.098	.056	.018	.087	.051	.016		
2.0	.118	.065	.020	.113	.062	.019	.103	.057	.018	.093	.052	.016	.084	.048	.015		
3.0	.110	.058	.017	.105	.056	.017	.097	.052	.016	.089	.049	.015	.081	.045	.014		
4.0	.102	.053	.016	.099	.052	.015	.091	.048	.014	.085	.045	.014	.078	.043	.013		
5.0	.096	.049	.014	.093	.048	.014	.087	.045	.013	.081	.043	.013	.076	.040	.012		
6.0	.091	.045	.013	.088	.044	.013	.083	.042	.012	.078	.040	.012	.073	.038	.011		
7.0	.086	.042	.012	.083	.042	.012	.079	.040	.011	.075	.038	.011	.071	.037	.011		
8.0	.082	.040	.011	.079	.039	.011	.075	.038	.011	.072	.036	.010	.068	.035	.010		
9.0	.078	.038	.010	.076	.037	.010	.072	.036	.010	.069	.035	.010	.066	.034	.010		
10.0	.074	.036	.010	.073	.035	.010	.070	.034	.010	.067	.033	.009	.064	.032	.009		

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	.170	.160	.151	.146	.137	.130	.100	.095	.090	.057	.055	.052	.018	.018	.017	
2.0	.152	.135	.121	.130	.116	.105	.089	.081	.073	.051	.047	.043	.016	.015	.014	
3.0	.136	.116	.099	.117	.100	.086	.080	.069	.060	.046	.040	.036	.015	.013	.012	
4.0	.123	.100	.083	.106	.087	.072	.073	.060	.051	.042	.035	.030	.014	.012	.010	
5.0	.112	.088	.070	.096	.076	.061	.066	.053	.043	.038	.031	.025	.012	.010	.008	
6.0	.103	.078	.059	.089	.067	.052	.061	.047	.037	.035	.028	.022	.011	.009	.007	
7.0	.095	.069	.051	.082	.060	.045	.057	.042	.032	.033	.025	.019	.011	.008	.006	
8.0	.088	.062	.044	.076	.054	.039	.053	.038	.028	.031	.022	.016	.010	.007	.005	
9.0	.083	.057	.039	.071	.049	.034	.049	.035	.024	.029	.020	.014	.009	.007	.005	
10.0	.078	.052	.035	.067	.045	.030	.046	.032	.021	.027	.019	.013	.009	.006	.004	

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

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:

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	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						-14.4	-13.8	-14.2	-13.7	-13.5	-13.7	-13.1	-13.5	-12.9	-12.8
3H						-14.6	-14.0	-14.3	-13.8	-13.7	-13.8	-13.3	-13.6	-13.1	-12.9
4H						-14.7	-14.1	-14.4	-13.9	-13.7	-13.9	-13.4	-13.6	-13.2	-12.9
6H						-14.7	-14.2	-14.5	-14.0	-13.8	-14.0	-13.5	-13.7	-13.2	-13.0
8H						-14.8	-14.3	-14.5	-14.1	-13.8	-14.0	-13.5	-13.7	-13.3	-13.0
12H						-14.8	-14.4	-14.5	-14.1	-13.8	-14.1	-13.6	-13.8	-13.3	-13.1
4H 2H						-14.6	-14.1	-14.4	-13.9	-13.7	-13.9	-13.4	-13.6	-13.1	-12.9
3H						-14.8	-14.4	-14.5	-14.1	-13.8	-14.1	-13.6	-13.7	-13.3	-13.1
4H						-14.9	-14.5	-14.6	-14.2	-13.9	-14.2	-13.7	-13.8	-13.4	-13.1
6H						-15.0	-14.6	-14.6	-14.3	-14.0	-14.3	-13.9	-13.9	-13.5	-13.2
8H						-15.1	-14.7	-14.7	-14.4	-14.0	-14.3	-14.0	-13.9	-13.6	-13.2
12H						-15.1	-14.8	-14.7	-14.4	-14.0	-14.4	-14.0	-14.0	-13.7	-13.3
8H 4H						-15.1	-14.7	-14.7	-14.4	-14.0	-14.3	-14.0	-13.9	-13.6	-13.2
6H						-15.2	-14.9	-14.8	-14.5	-14.1	-14.4	-14.1	-14.0	-13.7	-13.3
8H						-15.3	-15.0	-14.8	-14.6	-14.1	-14.5	-14.2	-14.0	-13.8	-13.4
12H						-15.3	-15.1	-14.9	-14.6	-14.2	-14.6	-14.3	-14.1	-13.9	-13.4
12H 4H						-15.1	-14.8	-14.7	-14.4	-14.0	-14.4	-14.0	-14.0	-13.7	-13.3
6H						-15.3	-15.0	-14.8	-14.6	-14.1	-14.5	-14.2	-14.0	-13.8	-13.4
8H						-15.3	-15.1	-14.9	-14.6	-14.2	-14.6	-14.3	-14.1	-13.9	-13.4
Variations with the observer position at spacings:															
S = 1.0H						+ 3.4 / - 6.4					+ 5.2 / -12.0				
1.5H						+ 5.2 / - 4.6					+ 7.5 / - 7.4				
2.0H						+ 2.6 / - 1.5					+ 2.6 / -41.5				

CIE Pub.117 Corrected 222.7 lm Total Lamp Luminous Flux.(8log(F/F0) = -5.2)

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:

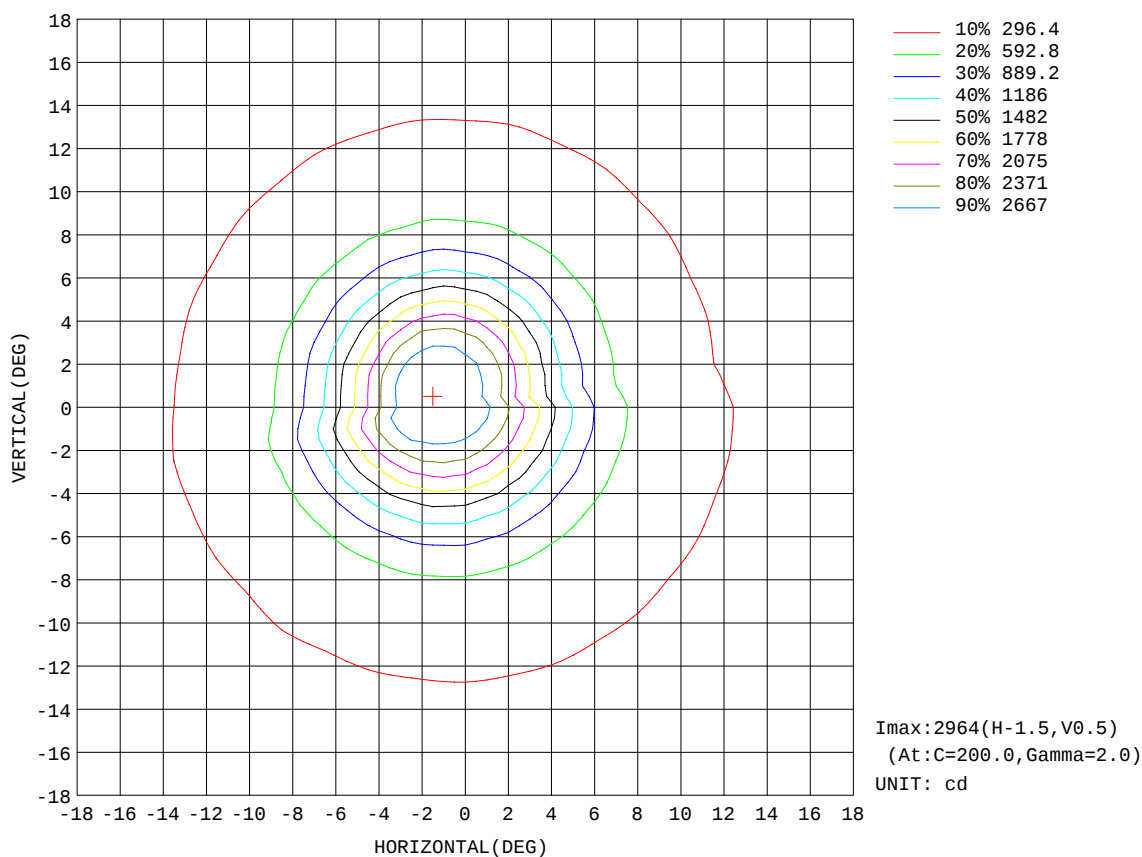
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	91	86	82	91	85	82	90	85	82	79
0.80	98	93	90	97	93	90	96	92	89	86
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	103	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	108	105	104	98
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: 2022-05-04

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:

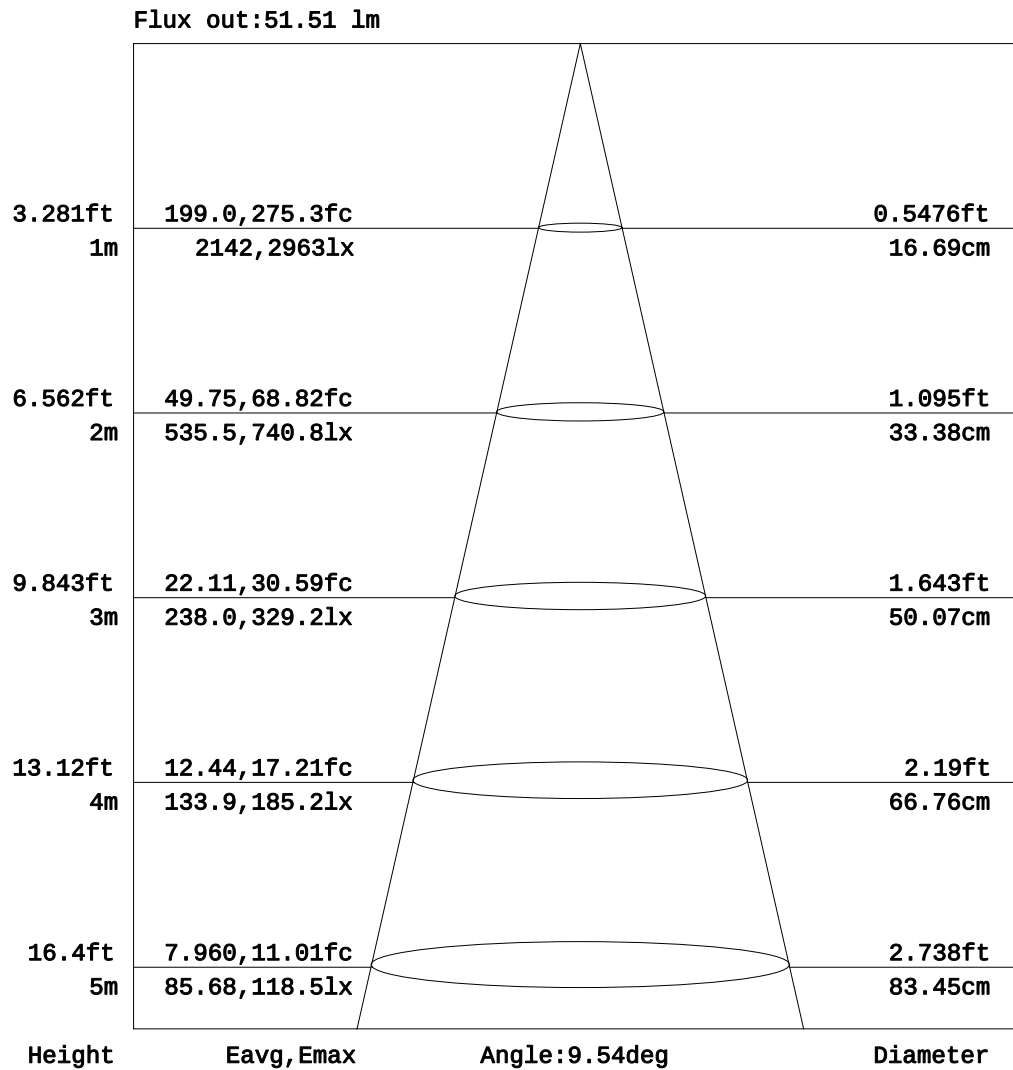


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-05-04

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:



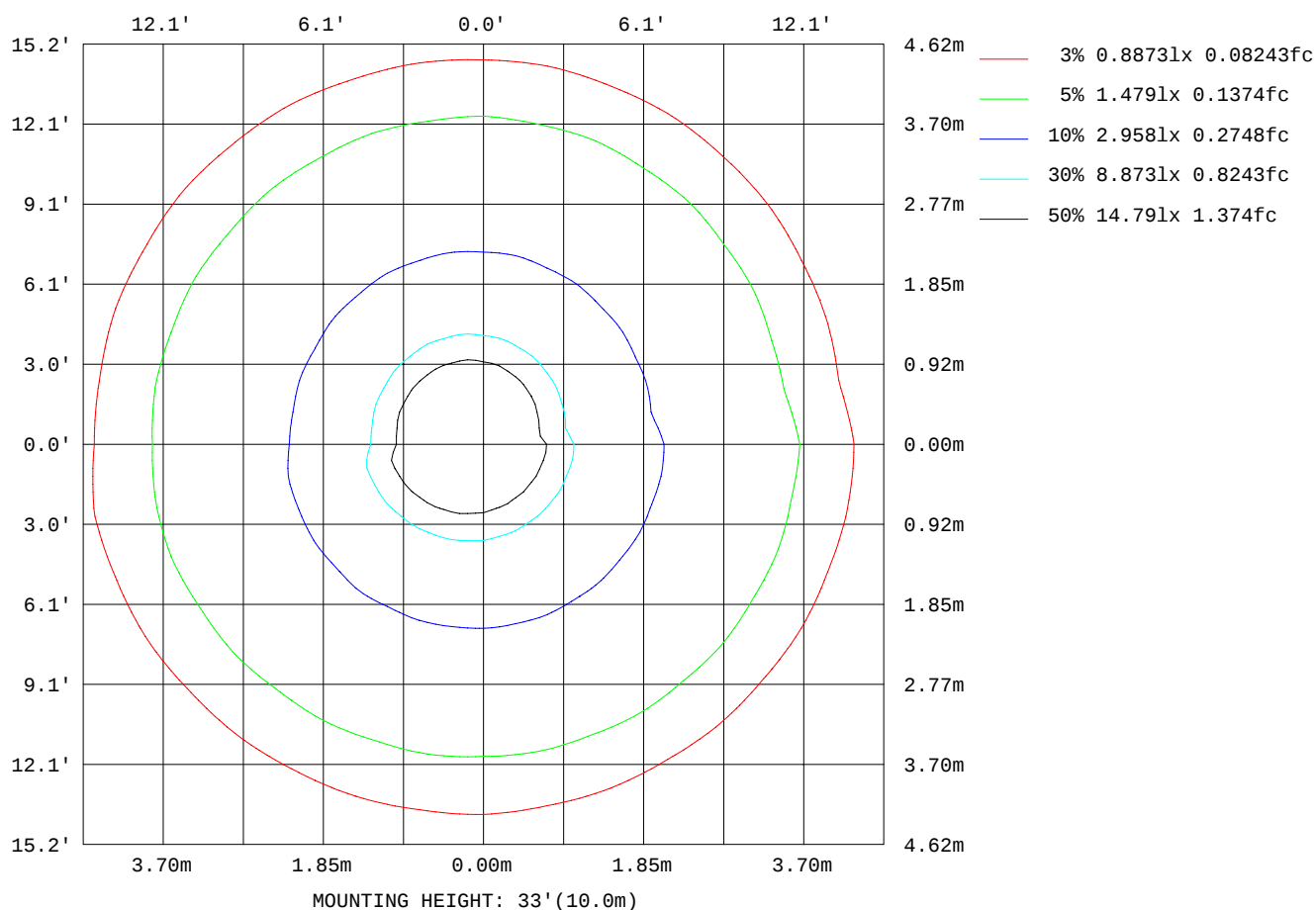
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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	222.726	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	5	4	5	4	5	5	5	4	4	2	3	3	5	6	8	8	9	8	7
60	2	1	3	2	3	2	2	1	2	1	2	2	4	3	4	5	6	6	5
65	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	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	3	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	222.726	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	5	4	5	4	5	5	5	4	4	2	3	3	5	6	8	8	9	8	7
60	2	1	3	2	3	2	2	1	2	1	2	2	4	3	4	5	6	6	5
65	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	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	3	1000	1500	200	500

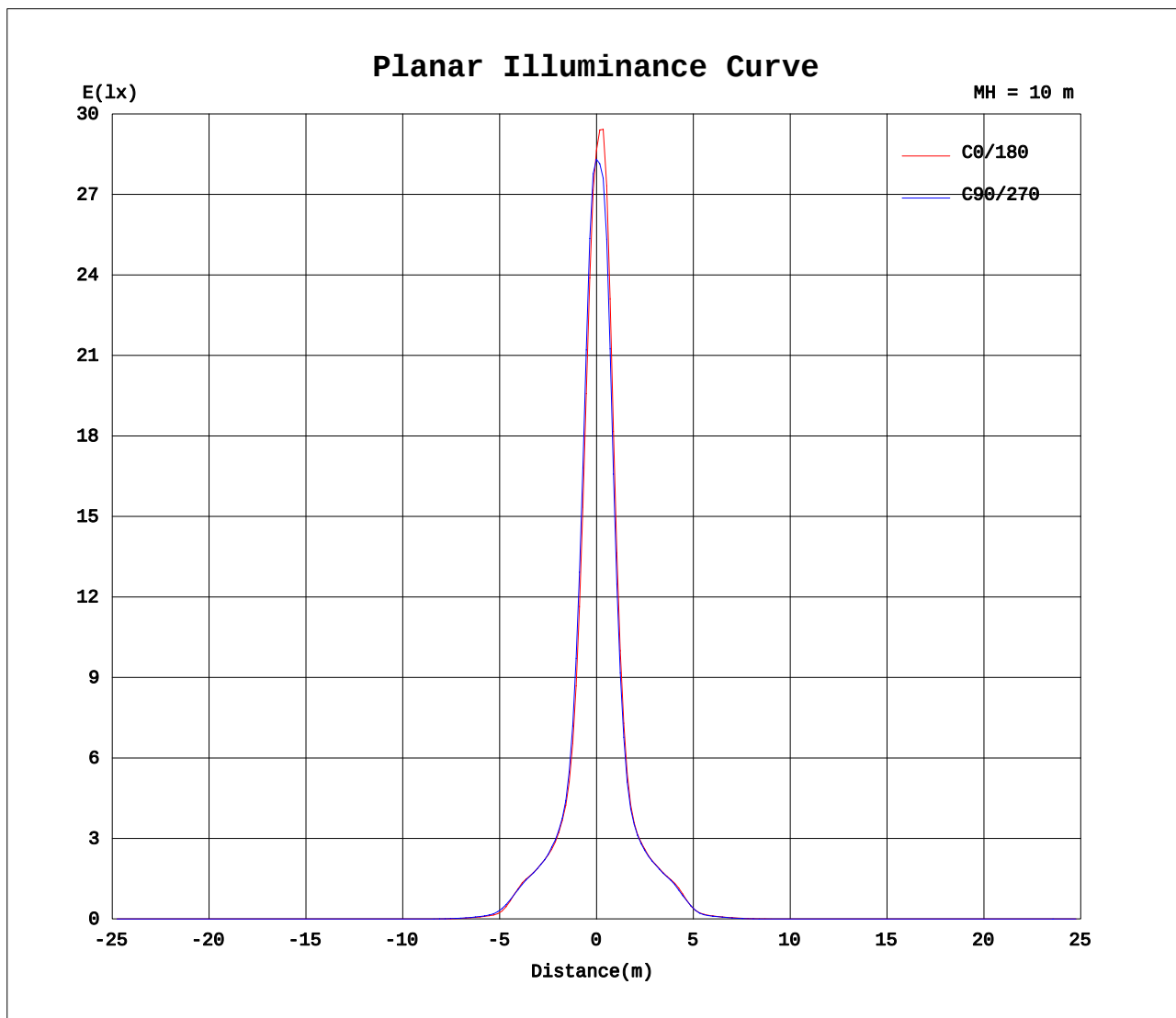
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

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	2863	2860	2854	2856	2846	2853	2843	2844	2835	2832	2821	2814	2807	2802	2795	2785	2779	2765	2863
5	1178	1176	1136	1156	1134	1168	1165	1219	1233	1307	1341	1435	1488	1607	1682	1833	1921	2064	1838
10	385	384	377	379	374	380	378	384	385	394	395	407	411	426	433	453	464	489	446
15	246	242	242	240	242	241	244	243	246	245	249	250	254	255	260	261	266	266	263
20	179	176	176	174	175	173	174	173	175	175	178	179	183	184	188	189	193	193	192
25	62.0	62.2	60.5	62.5	62.0	64.3	64.5	67.3	68.7	72.5	73.5	77.5	79.7	84.8	88.3	95.1	98.5	105	93.1
30	15.5	15.8	15.8	16.5	16.7	17.3	17.3	17.7	17.6	18.0	18.1	18.8	19.1	20.1	20.5	21.6	22.1	23.3	21.8
35	4.64	5.14	5.26	5.47	5.55	5.78	5.82	6.04	6.06	6.32	6.37	6.75	6.95	7.48	7.81	8.57	9.05	9.81	9.39
40	0.62	0.71	1.04	1.27	1.35	1.35	1.23	0.95	0.80	0.85	1.10	1.60	1.79	2.01	2.20	2.55	2.57	2.47	2.06
45	0.42	0.35	0.40	0.39	0.45	0.36	0.40	0.34	0.32	0.27	0.29	0.31	0.44	0.46	0.53	0.50	0.60	0.64	0.62
50	0.37	0.34	0.37	0.34	0.34	0.32	0.33	0.30	0.25	0.26	0.23	0.25	0.30	0.32	0.34	0.47	0.50	0.56	0.52
55	0.26	0.20	0.28	0.23	0.29	0.26	0.27	0.20	0.21	0.14	0.19	0.19	0.31	0.37	0.44	0.46	0.52	0.48	0.41
60	0.08	0.06	0.15	0.09	0.14	0.09	0.11	0.06	0.10	0.05	0.11	0.08	0.18	0.14	0.22	0.24	0.30	0.28	0.25
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	0.06	0.08	0.15	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.03	0.09	0.04	0.09	0.03	0.09	0.03	0.08	0.03	0.08	0.03	0.07	0.01	0.06	0.00	0.04	0.00	0.03	0.05
150	0.21	0.26	0.21	0.26	0.23	0.26	0.22	0.25	0.21	0.24	0.19	0.23	0.17	0.21	0.15	0.19	0.14	0.17	0.20
155	0.59	0.63	0.59	0.64	0.60	0.63	0.58	0.62	0.57	0.60	0.54	0.56	0.51	0.53	0.47	0.49	0.43	0.46	0.49
160	0.96	1.01	0.96	1.01	0.95	1.00	0.95	0.99	0.93	0.97	0.91	0.95	0.89	0.93	0.87	0.90	0.84	0.87	0.85
165	1.15	1.20	1.14	1.19	1.15	1.18	1.14	1.18	1.13	1.17	1.12	1.16	1.11	1.15	1.09	1.13	1.08	1.11	1.10
170	1.28	1.27	1.27	1.26	1.27	1.28	1.26	1.27	1.26	1.29	1.25	1.27	1.25	1.28	1.23	1.27	1.22	1.26	1.28
175	1.29	1.29	1.30	1.28	1.28	1.28	1.29	1.28	1.29	1.28	1.30	1.29	1.30	1.29	1.31	1.30	1.30	1.28	1.29
180	1.27	1.27	1.26	1.26	1.27	1.27	1.27	1.27	1.27	1.27	1.28	1.28	1.29	1.29	1.29	1.29	1.29	1.29	1.28

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	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	2860	2854	2856	2846	2853	2843	2844	2835	2832	2821	2814	2807	2802	2795	2785	2779	2765		
5	1861	1936	1914	1952	1903	1903	1823	1789	1677	1620	1498	1435	1320	1255	1148	1098	1024		
10	444	456	448	457	447	452	441	442	430	427	410	405	389	382	368	364	354		
15	265	264	266	264	266	263	264	260	260	255	254	248	247	240	238	233	233		
20	194	192	193	192	193	191	192	190	190	187	186	182	181	176	175	170	169		
25	93.8	98.7	98.5	101	98.7	99.3	95.7	95.0	91.3	89.2	82.8	78.6	70.3	65.3	57.5	54.0	49.4		
30	22.0	22.6	22.6	22.9	22.4	22.3	21.4	20.9	20.0	19.5	18.5	17.7	16.5	15.7	14.8	14.4	13.8		
35	9.59	9.91	9.89	9.85	9.52	9.25	8.67	7.98	7.28	7.22	6.72	6.30	5.71	5.36	4.94	4.43	3.65		
40	2.38	3.02	3.08	3.03	2.75	2.23	1.37	1.11	1.00	1.18	1.43	1.59	1.41	1.19	0.84	0.59	0.55		
45	0.68	0.63	0.79	0.71	0.55	0.38	0.43	0.39	0.42	0.37	0.38	0.46	0.44	0.35	0.42	0.39	0.42		
50	0.51	0.46	0.49	0.41	0.35	0.32	0.35	0.36	0.35	0.33	0.33	0.38	0.38	0.37	0.37	0.38	0.36		
55	0.45	0.38	0.44	0.36	0.29	0.24	0.27	0.21	0.25	0.18	0.23	0.22	0.27	0.21	0.27	0.21	0.25		
60	0.26	0.20	0.23	0.12	0.12	0.06	0.13	0.07	0.09	0.04	0.11	0.09	0.13	0.07	0.15	0.06	0.00		
65	0.00	0.00	0.08	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
145	0.01	0.05	0.00	0.06	0.00	0.05	0.01	0.05	0.02	0.07	0.02	0.07	0.02	0.08	0.04	0.08	0.05		
150	0.15	0.19	0.15	0.19	0.15	0.19	0.15	0.20	0.16	0.21	0.17	0.22	0.19	0.24	0.21	0.26	0.23		
155	0.43	0.47	0.43	0.47	0.42	0.47	0.44	0.49	0.45	0.51	0.47	0.53	0.50	0.55	0.54	0.59	0.57		
160	0.79	0.83	0.79	0.82	0.78	0.83	0.79	0.84	0.80	0.85	0.82	0.86	0.83	0.89	0.86	0.92	0.88		
165	1.05	1.10	1.05	1.09	1.04	1.08	1.03	1.09	1.05	1.10	1.05	1.11	1.07	1.12	1.10	1.14	1.09		
170	1.22	1.26	1.21	1.26	1.20	1.25	1.20	1.24	1.20	1.23	1.20	1.24	1.21	1.25	1.22	1.25	1.24		
175	1.29	1.27	1.29	1.28	1.29	1.27	1.27	1.27	1.27	1.26	1.26	1.26	1.26	1.26	1.25	1.26	1.26		
180	1.28	1.28	1.28	1.28	1.28	1.28	1.27	1.27	1.27	1.27	1.26	1.26	1.26	1.26	1.26	1.26	1.26		

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: