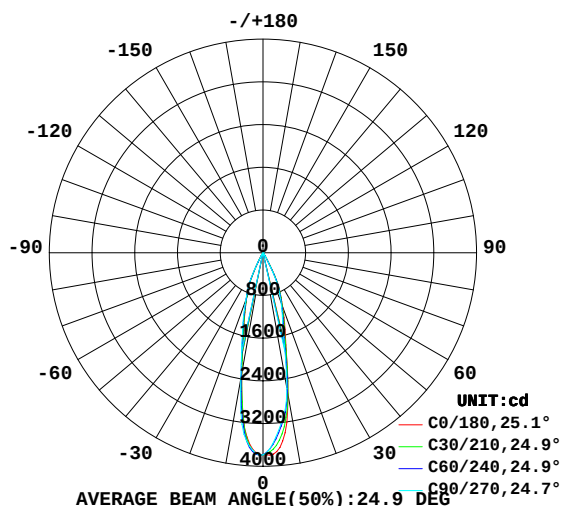


LUMINAIRE PHOTOMETRIC TEST REPORT

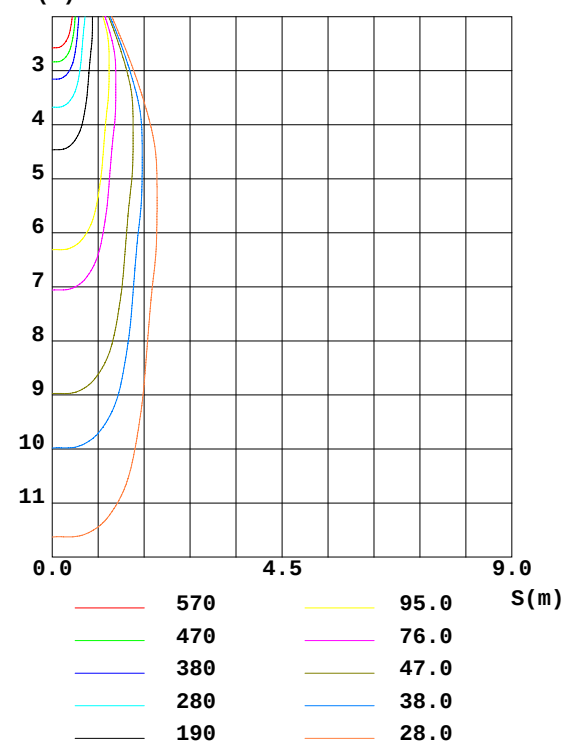
NAME: CL-Dot12-uls-3000K-Ra90-12w-34D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 79.51 lm/W			
MODEL		I _{max} (cd)	3801	S/MH(C0/180)	0.45
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	0.43
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1011.4	η UP, DN(C0-180)	0.2, 51.1
NOMINAL FLUX(lm)	1011.4	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 48.5
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:tang
Test Date:2022-04-14

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	2701	2668	2581	2417	2308	2326	2405	2558	0- 10	302.4	302.4	29.9, 29.9
20	1073	1036	990.9	950.3	903.8	911.8	941.7	1011	10- 20	423.1	725.5	71.7, 71.7
30	188.6	184.7	164.3	149.9	110.0	96.11	100.9	146.6	20- 30	249.9	975.5	96.4, 96.4
40	9.036	10.84	10.23	7.870	4.046	2.838	3.118	4.909	30- 40	31.07	1007	99.5, 99.5
50	0.0710	0.1276	0.0847	0.0873	0	0.0213	0.0993	0.0566	40- 50	0.8996	1007	99.6, 99.6
60	0	0	0	0	0	0	0	0	50- 60	0.0149	1007	99.6, 99.6
70	0	0	0	0	0	0	0	0	60- 70	0	1007	99.6, 99.6
80	0	0	0	0	0	0	0	0	70- 80	0	1007	99.6, 99.6
90	0	0	0	0	0	0	0	0	80- 90	0	1007	99.6, 99.6
100	0	0	0	0	0	0	0	0	90-100	0	1007	99.6, 99.6
110	0	0	0	0	0	0	0	0	100-110	0	1007	99.6, 99.6
120	0	0	0	0	0	0	0	0	110-120	0	1007	99.6, 99.6
130	0	0	0	0	0.0334	0.0167	0	0.0073	120-130	0.0004	1007	99.6, 99.6
140	0.3765	0.3892	0.4397	0.4742	0.6052	0.5783	0.5230	0.4980	130-140	0.1335	1008	99.6, 99.6
150	1.641	1.668	1.767	1.862	2.003	1.942	1.844	1.763	140-150	0.6500	1008	99.7, 99.7
160	3.754	3.780	3.890	3.969	4.042	3.957	3.845	3.743	150-160	1.279	1010	99.8, 99.8
170	5.525	5.500	5.541	5.564	5.669	5.566	5.492	5.441	160-170	1.330	1011	99.9, 99.9
180	6.262	6.187	6.158	6.158	6.267	6.192	6.149	6.154	170-180	0.5554	1011	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

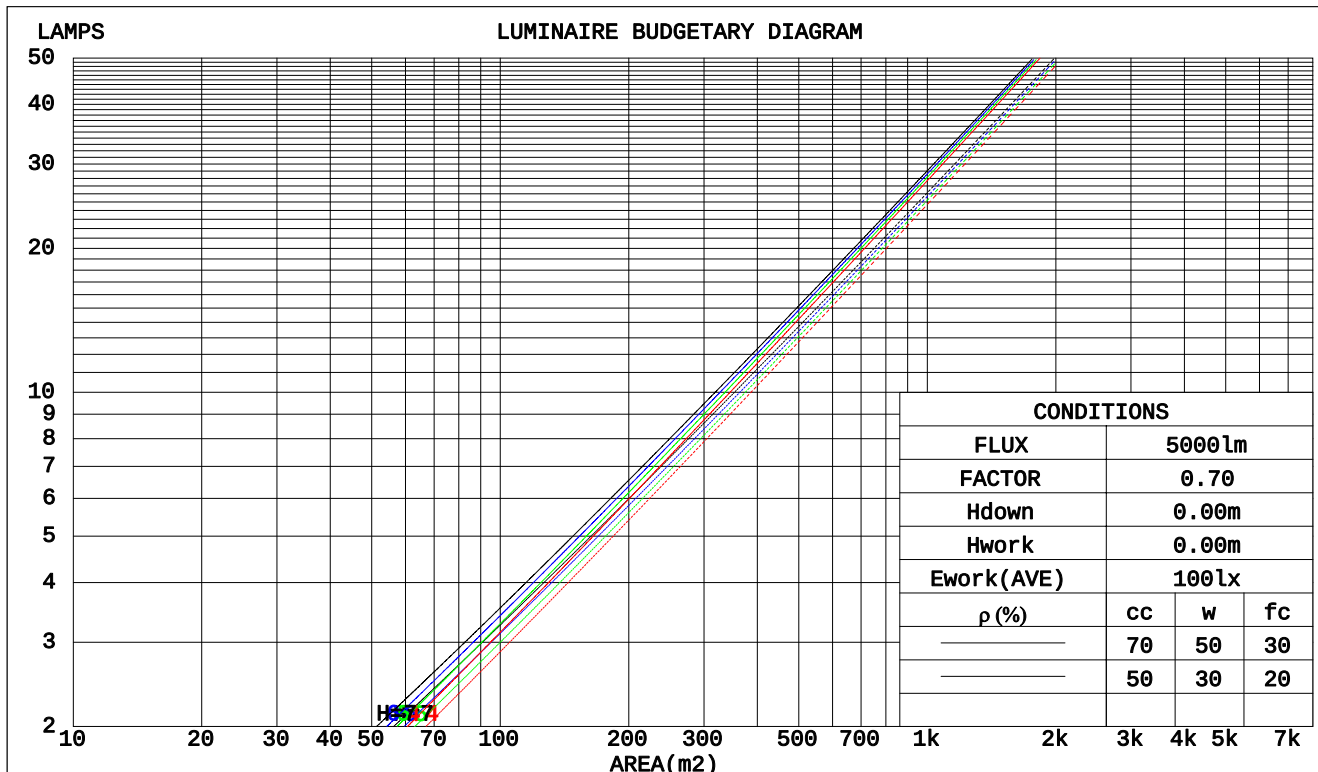
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-14

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: D0t12-S-3000K-Ra90-6w-34D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	1.10	1.09	1.07	1.06	1.05	1.04	1.03	1.02	1.01	.99	.98	.98	.96
2.0	1.07	1.04	1.01	1.05	1.03	1.00	1.02	.99	.98	.99	.97	.96	.97	.95	.94	.92
3.0	1.02	.99	.96	1.01	.97	.95	.98	.96	.93	.96	.94	.92	.94	.92	.90	.89
4.0	.98	.94	.91	.97	.93	.90	.95	.92	.89	.93	.90	.88	.91	.89	.87	.86
5.0	.94	.90	.87	.93	.89	.86	.92	.88	.85	.90	.87	.85	.89	.86	.84	.83
6.0	.91	.86	.83	.90	.86	.83	.88	.85	.82	.87	.84	.82	.86	.83	.81	.80
7.0	.87	.83	.80	.87	.83	.80	.86	.82	.79	.84	.81	.79	.83	.81	.78	.77
8.0	.84	.80	.77	.84	.80	.77	.83	.79	.76	.82	.79	.76	.81	.78	.76	.75
9.0	.82	.77	.74	.81	.77	.74	.80	.77	.74	.79	.76	.74	.79	.76	.73	.72
10.0	.79	.75	.72	.79	.75	.72	.78	.74	.72	.77	.74	.71	.77	.73	.71	.70



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-14

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: D0t12-S-3000K-Ra90-6w-34D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

ρ_{CC}	80%			70%			50%			30%			10%			0	
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.141	.080	.025	.134	.077	.024	.122	.070	.022	.110	.063	.020	.099	.058	.019		
2.0	.131	.072	.022	.126	.069	.021	.115	.064	.020	.105	.059	.019	.097	.055	.017		
3.0	.123	.065	.020	.118	.063	.019	.109	.059	.018	.101	.055	.017	.094	.052	.016		
4.0	.115	.060	.018	.112	.058	.017	.104	.055	.016	.097	.052	.016	.091	.049	.015		
5.0	.109	.056	.016	.106	.054	.016	.099	.052	.015	.094	.049	.015	.088	.047	.014		
6.0	.104	.052	.015	.101	.051	.015	.095	.049	.014	.090	.047	.014	.085	.045	.013		
7.0	.099	.049	.014	.096	.048	.014	.091	.046	.013	.087	.045	.013	.083	.043	.013		
8.0	.094	.046	.013	.092	.045	.013	.088	.044	.013	.084	.043	.012	.080	.041	.012		
9.0	.090	.044	.012	.089	.043	.012	.085	.042	.012	.081	.041	.012	.078	.040	.011		
10.0	.087	.042	.012	.085	.041	.011	.082	.040	.011	.079	.039	.011	.076	.038	.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	.172	.161	.151	.147	.138	.130	.100	.095	.090	.058	.055	.052	.019	.018	.017	
2.0	.154	.136	.120	.132	.117	.104	.090	.081	.073	.052	.047	.043	.017	.015	.014	
3.0	.139	.116	.098	.119	.100	.085	.082	.070	.060	.047	.041	.035	.015	.013	.012	
4.0	.127	.101	.081	.109	.087	.071	.075	.061	.050	.043	.036	.029	.014	.012	.010	
5.0	.117	.089	.068	.100	.077	.059	.069	.054	.042	.040	.032	.025	.013	.010	.008	
6.0	.108	.079	.058	.093	.068	.051	.064	.048	.036	.037	.028	.021	.012	.009	.007	
7.0	.101	.071	.050	.087	.061	.044	.060	.043	.031	.035	.025	.018	.011	.008	.006	
8.0	.094	.064	.043	.081	.056	.038	.056	.039	.027	.033	.023	.016	.011	.008	.005	
9.0	.089	.059	.038	.077	.051	.033	.053	.036	.024	.031	.021	.014	.010	.007	.005	
10.0	.084	.054	.034	.073	.047	.030	.050	.033	.021	.029	.019	.013	.010	.006	.004	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-14

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: D0t12-S-3000K-Ra90-6w-34D					TYPE:					WEIGHT:				
DIM.:					SPEC.:					SERIAL No.:				
MFR.: VD					SUR.:					PROTECTION ANGLE:				
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3				
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	-4.0	-3.3	-3.8	-3.1	-3.0	-3.6	-2.9	-3.4	-2.7	-2.6				
3H	-4.1	-3.5	-3.9	-3.3	-3.1	-3.7	-3.1	-3.5	-2.9	-2.7				
4H	-4.2	-3.6	-3.9	-3.4	-3.2	-3.8	-3.2	-3.6	-3.0	-2.8				
6H	-4.3	-3.7	-4.0	-3.5	-3.2	-3.9	-3.3	-3.6	-3.1	-2.9				
8H	-4.3	-3.8	-4.0	-3.5	-3.3	-3.9	-3.4	-3.6	-3.1	-2.9				
12H	-4.4	-3.8	-4.1	-3.6	-3.3	-4.0	-3.5	-3.7	-3.2	-2.9				
4H 2H	-4.2	-3.6	-3.9	-3.4	-3.2	-3.8	-3.2	-3.6	-3.0	-2.8				
3H	-4.4	-3.8	-4.1	-3.6	-3.3	-4.0	-3.5	-3.7	-3.2	-2.9				
4H	-4.5	-4.0	-4.1	-3.7	-3.4	-4.1	-3.6	-3.7	-3.3	-3.0				
6H	-4.6	-4.1	-4.2	-3.8	-3.5	-4.2	-3.8	-3.8	-3.4	-3.1				
8H	-4.6	-4.2	-4.2	-3.9	-3.5	-4.2	-3.9	-3.9	-3.5	-3.1				
12H	-4.7	-4.3	-4.3	-3.9	-3.5	-4.3	-3.9	-3.9	-3.6	-3.2				
8H 4H	-4.6	-4.2	-4.2	-3.9	-3.5	-4.2	-3.9	-3.9	-3.5	-3.1				
6H	-4.7	-4.4	-4.3	-4.0	-3.6	-4.4	-4.0	-3.9	-3.6	-3.2				
8H	-4.8	-4.5	-4.3	-4.1	-3.6	-4.4	-4.1	-4.0	-3.7	-3.3				
12H	-4.9	-4.6	-4.4	-4.2	-3.7	-4.5	-4.2	-4.0	-3.8	-3.3				
12H 4H	-4.7	-4.3	-4.3	-3.9	-3.5	-4.3	-3.9	-3.9	-3.6	-3.2				
6H	-4.8	-4.5	-4.3	-4.1	-3.6	-4.4	-4.1	-4.0	-3.7	-3.3				
8H	-4.9	-4.6	-4.4	-4.2	-3.7	-4.5	-4.2	-4.0	-3.8	-3.3				
Variations with the observer position at spacings:														
S = 1.0H	+ 5.2 / - 1.\$					+ 5.5 / - 1.\$								
1.5H	+ 8.0 / -54.7					+ 8.3 / -35.8								
2.0H	+ 8.5 / - 1.\$					+ 7.0 / - 1.\$								

CIE Pub.117 Corrected 1011 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.0)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-14

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: D0t12-S-3000K-Ra90-6w-34D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

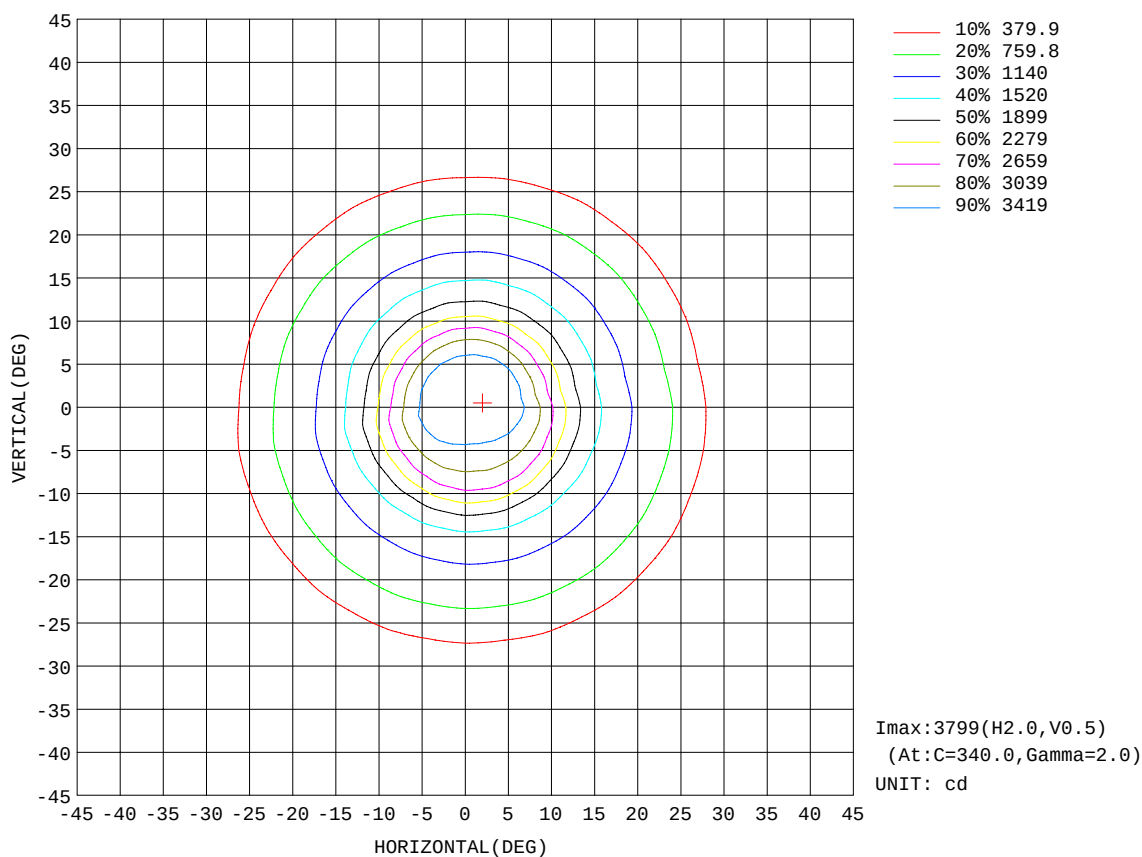
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	91	86	82	91	86	82	90	85	82	79
0.80	98	93	90	98	93	90	96	92	89	86
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	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: tang
Test Date: 2022-04-14

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: D0t12-S-3000K-Ra90-6w-34D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

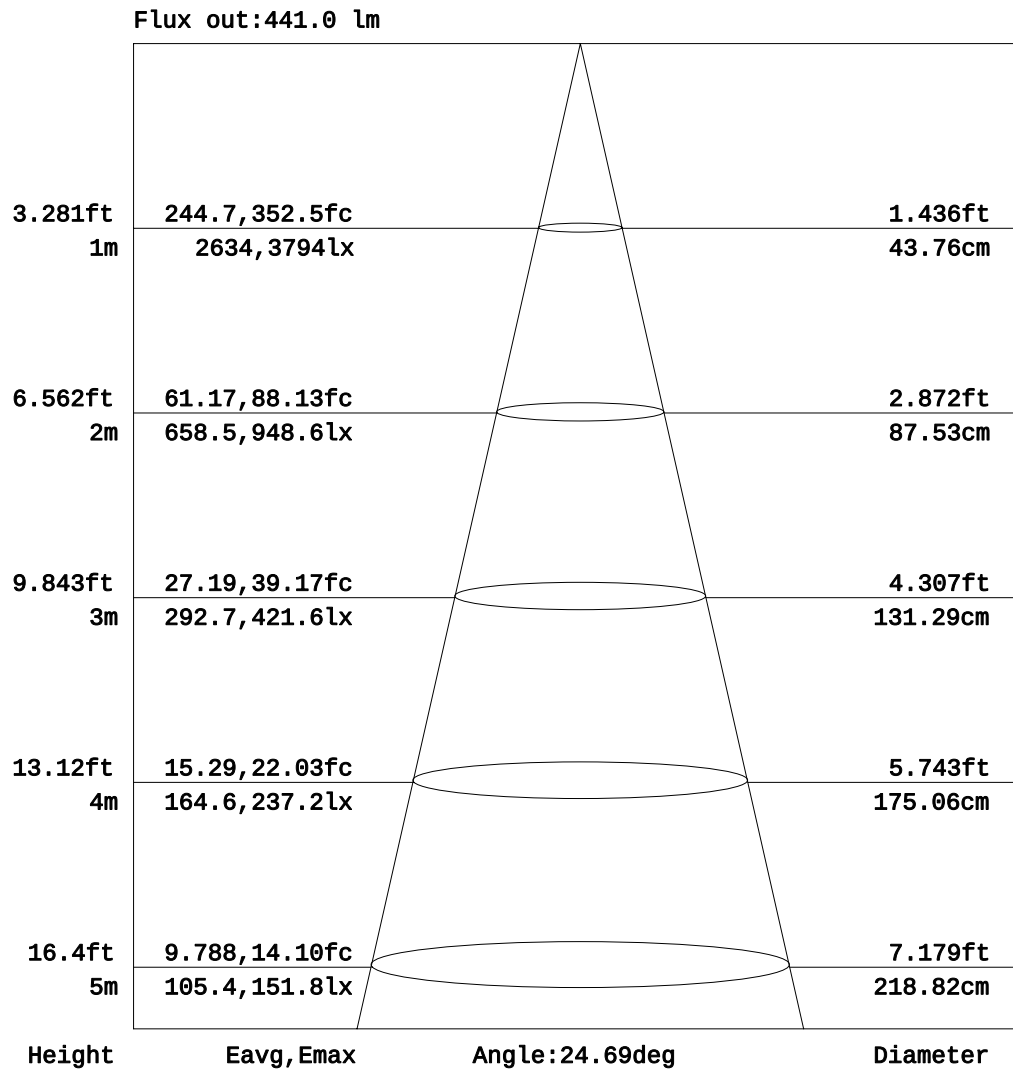


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-14

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: D0t12-S-3000K-Ra90-6w-34D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:



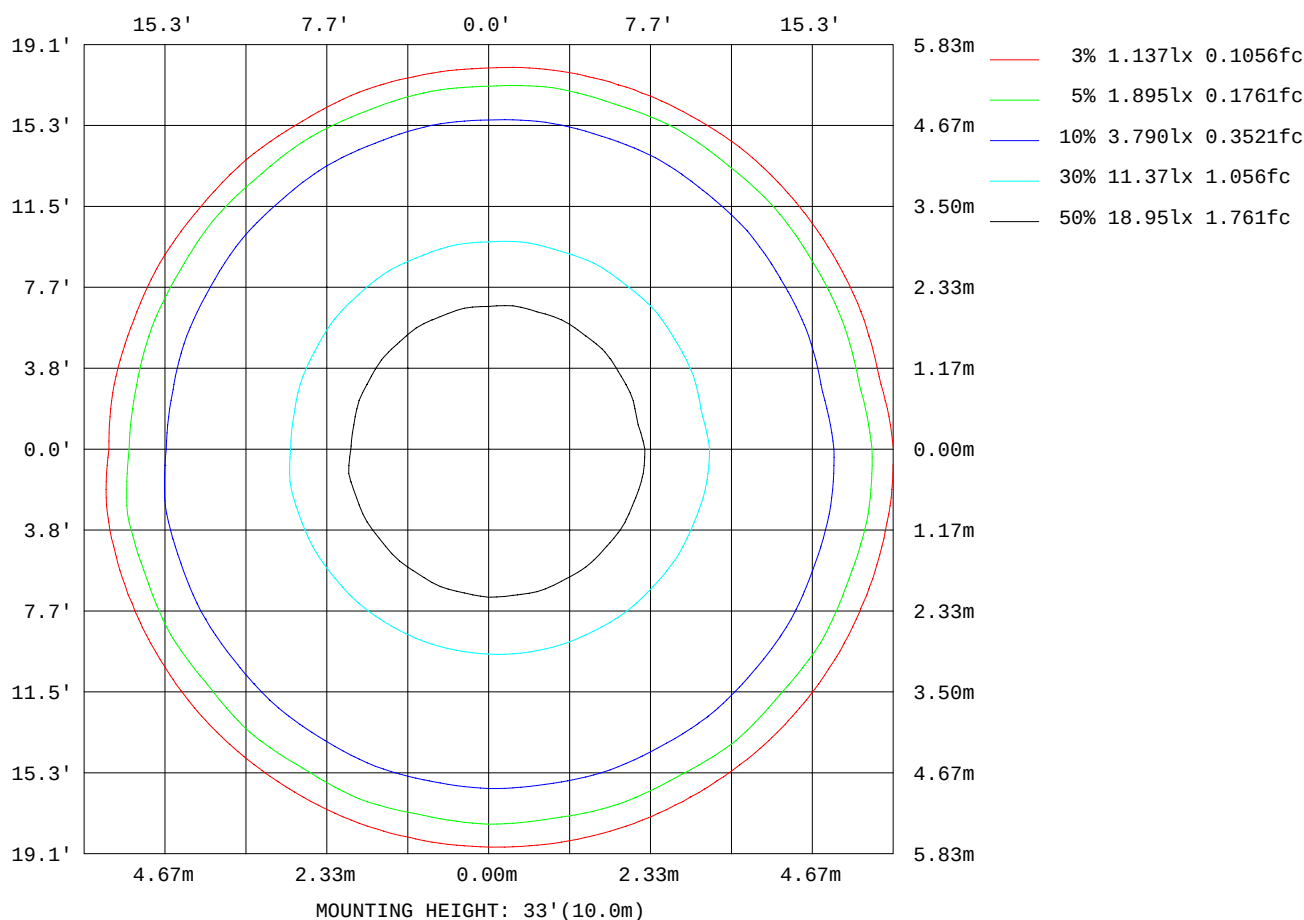
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-14

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: D0t12-S-3000K-Ra90-6w-34D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-14

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: D0t12-S-3000K-Ra90-6w-34D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Bc	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	1	
Output of each lamp(initial lumens as specified)	F	1011.4	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 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	1	0	1	0	1	0	1	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 2. Average Luminance(cd/sq.m.) for defined C plane,Gamma angle

CIBSE Category	Gamma (deg)	Average Luminance		Patch Luminance	
		maximum calculated	specified maximum	maximum measured	specified maximum
Category 1	55 to 90	1	200	---	500
Category 2	65 to 90	0	200	---	500
Category 3	75 to 90	0	200	---	500

Table 3. Tabulation of Average and Patch Luminance(cd/sq.m.) for defined CIBSE categories

No match

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-14

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: D0t12-S-3000K-Ra90-6w-34D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Bc	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	1	
Output of each lamp(initial lumens as specified)	F	1011.4	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	1	0	1	0	1	0	1	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 2. Average Luminance(cd/sq.m.) for defined C plane,Gamma angle

range (deg)	Maximum measured	Average Luminance(cd/sq.m)			
		Maximum limit for screen type & software category used			
		Type I,II screen Some neg.s'ware	Type I,II screen Only pos.s'ware	Type III screen Some neg.s'ware	Type III screen Only pos.s'ware
55 to 90	1	1000	1500	200	500
65 to 90	0	1000	1500	200	500

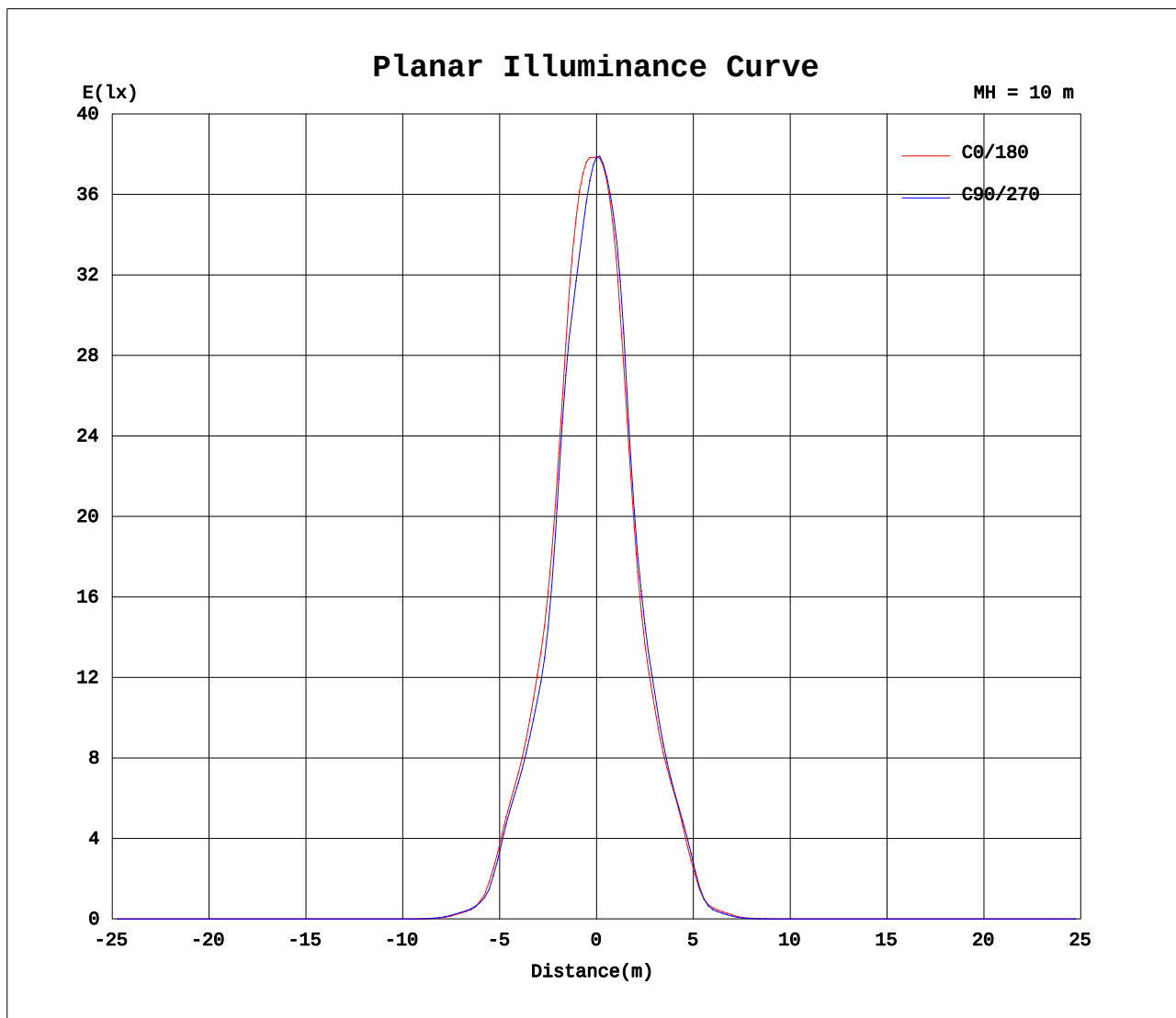
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

The luminaire satisfies the specified luminance criteria for
Negative Software with Type I & II Screen(Good to Moderate treatment).

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-14

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: D0t12-S-3000K-Ra90-6w-34D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(°) γ (°)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	3787	3787	3784	3785	3783	3785	3783	3785	3783	3785	3782	3784	3782	3783	3781	3781	3780	3780	3787
5	3658	3620	3564	3524	3466	3429	3382	3363	3336	3342	3339	3366	3380	3418	3425	3457	3465	3497	3465
10	2701	2722	2683	2698	2661	2674	2631	2634	2585	2581	2520	2512	2446	2443	2390	2410	2378	2406	2308
15	1622	1619	1581	1573	1534	1526	1490	1480	1444	1441	1413	1418	1396	1406	1390	1404	1394	1413	1379
20	1073	1073	1058	1054	1039	1033	1016	1010	994	991	975	971	959	957	944	941	930	931	904
25	681	690	683	687	676	676	660	657	639	633	616	613	594	587	566	562	545	547	500
30	189	192	188	190	186	184	178	175	169	164	160	158	153	149	151	139	141	129	110
35	53.7	56.2	57.1	59.3	60.4	61.7	61.4	61.8	59.9	59.8	58.6	58.8	56.9	56.2	53.9	52.0	48.7	46.6	39.5
40	9.04	10.1	10.4	10.8	10.8	10.8	10.3	10.6	10.1	10.2	9.85	9.92	8.92	8.27	7.47	6.92	6.04	5.53	4.05
45	0.33	0.37	0.45	0.55	0.52	0.55	0.60	0.59	0.57	0.45	0.47	0.42	0.40	0.28	0.27	0.20	0.23	0.14	0.11
50	0.07	0.03	0.09	0.05	0.13	0.13	0.18	0.13	0.16	0.08	0.16	0.13	0.17	0.08	0.09	0.03	0.06	0.00	0.00
55	0.00	0.00	0.00	0.00	0.03	0.00	0.05	0.02	0.06	0.00	0.03	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
135	0.06	0.09	0.05	0.09	0.05	0.10	0.06	0.09	0.06	0.11	0.08	0.13	0.09	0.14	0.11	0.15	0.11	0.16	0.23
140	0.38	0.41	0.36	0.40	0.37	0.41	0.37	0.42	0.39	0.44	0.41	0.46	0.44	0.49	0.46	0.51	0.48	0.51	0.61
145	0.87	0.91	0.87	0.89	0.87	0.91	0.89	0.94	0.91	0.97	0.96	1.01	0.99	1.04	1.03	1.06	1.04	1.07	1.17
150	1.64	1.66	1.64	1.66	1.65	1.69	1.67	1.72	1.72	1.77	1.77	1.82	1.82	1.87	1.86	1.89	1.88	1.90	2.00
155	2.66	2.69	2.67	2.69	2.68	2.72	2.71	2.75	2.77	2.82	2.83	2.88	2.88	2.91	2.91	2.94	2.92	2.95	3.01
160	3.75	3.78	3.76	3.78	3.77	3.79	3.79	3.84	3.84	3.89	3.89	3.94	3.94	3.97	3.97	3.99	3.98	4.00	4.04
165	4.77	4.79	4.76	4.78	4.75	4.79	4.76	4.81	4.79	4.84	4.83	4.88	4.86	4.91	4.90	4.94	4.93	4.97	4.98
170	5.52	5.56	5.50	5.54	5.48	5.52	5.46	5.52	5.49	5.54	5.51	5.56	5.52	5.57	5.55	5.61	5.59	5.66	5.67
175	5.98	6.01	5.96	5.99	5.91	5.95	5.89	5.94	5.89	5.95	5.90	5.95	5.91	5.97	5.92	5.98	5.97	6.05	6.09
180	6.26	6.27	6.23	6.23	6.19	6.19	6.16	6.16	6.16	6.16	6.15	6.15	6.15	6.16	6.16	6.16	6.18	6.21	6.27

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-14

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: D0t12-S-3000K-Ra90-6w-34D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	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	3787	3784	3785	3783	3785	3783	3785	3783	3785	3782	3784	3782	3783	3781	3781	3780	3780		
5	3466	3492	3493	3519	3518	3540	3539	3546	3539	3556	3571	3616	3647	3689	3684	3680	3645		
10	2281	2312	2296	2331	2320	2362	2353	2403	2405	2469	2473	2535	2531	2585	2571	2606	2578		
15	1367	1397	1397	1424	1422	1449	1447	1476	1476	1509	1513	1550	1552	1582	1574	1590	1567		
20	896	904	901	913	911	923	922	938	942	962	970	993	1000	1021	1021	1035	1028		
25	489	500	496	514	514	533	533	550	552	572	578	600	603	621	621	633	628		
30	104	102	97.8	97.7	94.5	95.5	94.6	99.5	101	109	130	128	147	146	151	157	157		
35	36.4	34.3	30.9	29.8	27.2	26.7	25.5	26.7	26.9	28.9	30.2	34.1	36.3	40.0	41.7	44.5	46.1		
40	3.29	3.01	2.71	2.87	2.81	2.85	2.68	3.01	3.12	3.68	4.02	4.51	4.71	5.10	5.32	6.05	6.59		
45	0.15	0.08	0.14	0.08	0.15	0.14	0.21	0.21	0.27	0.29	0.34	0.29	0.27	0.22	0.24	0.21	0.28		
50	0.04	0.00	0.04	0.00	0.04	0.00	0.05	0.01	0.10	0.07	0.11	0.05	0.09	0.03	0.07	0.00	0.06		
55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.03	0.00	0.01	0.00	0.00	0.00	0.00		
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
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	0.03	0.00	0.03	0.00	0.04	0.00	0.03	0.00	0.02	0.00	0.02	0.00	0.01	0.00	0.01	0.00		
135	0.20	0.24	0.19	0.24	0.19	0.23	0.19	0.23	0.18	0.22	0.17	0.20	0.15	0.18	0.14	0.18	0.13		
140	0.57	0.61	0.57	0.60	0.56	0.59	0.54	0.57	0.52	0.55	0.50	0.54	0.48	0.52	0.47	0.50	0.45		
145	1.14	1.17	1.14	1.16	1.12	1.13	1.09	1.11	1.07	1.08	1.03	1.04	0.99	1.02	0.98	1.00	0.96		
150	1.98	1.99	1.96	1.96	1.92	1.93	1.89	1.89	1.84	1.84	1.80	1.80	1.76	1.77	1.73	1.75	1.72		
155	2.99	3.00	2.96	2.96	2.93	2.92	2.88	2.88	2.82	2.82	2.77	2.76	2.73	2.73	2.69	2.72	2.70		
160	4.00	4.01	3.97	3.98	3.93	3.94	3.90	3.89	3.84	3.84	3.79	3.78	3.74	3.75	3.72	3.74	3.72		
165	4.93	4.95	4.90	4.91	4.87	4.88	4.83	4.85	4.79	4.80	4.74	4.74	4.70	4.72	4.69	4.71	4.68		
170	5.61	5.63	5.57	5.59	5.54	5.57	5.52	5.56	5.49	5.51	5.45	5.48	5.42	5.46	5.42	5.46	5.43		
175	6.04	6.05	5.99	6.02	5.96	6.00	5.95	5.99	5.93	5.97	5.91	5.94	5.88	5.93	5.89	5.94	5.90		
180	6.26	6.26	6.21	6.21	6.17	6.17	6.16	6.16	6.15	6.16	6.15	6.15	6.15	6.16	6.16	6.17	6.21		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-14

γ Range: 0 - 180DEG
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Humidity:65.0%
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