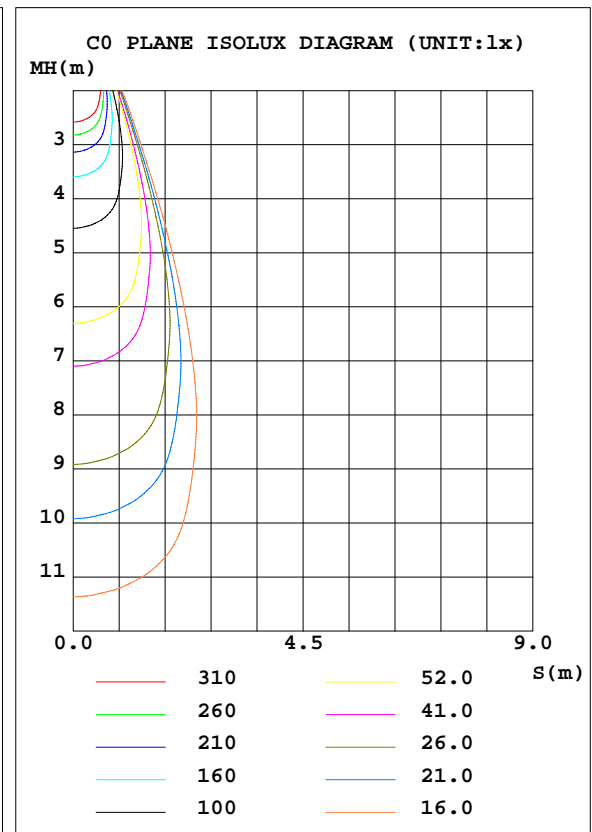
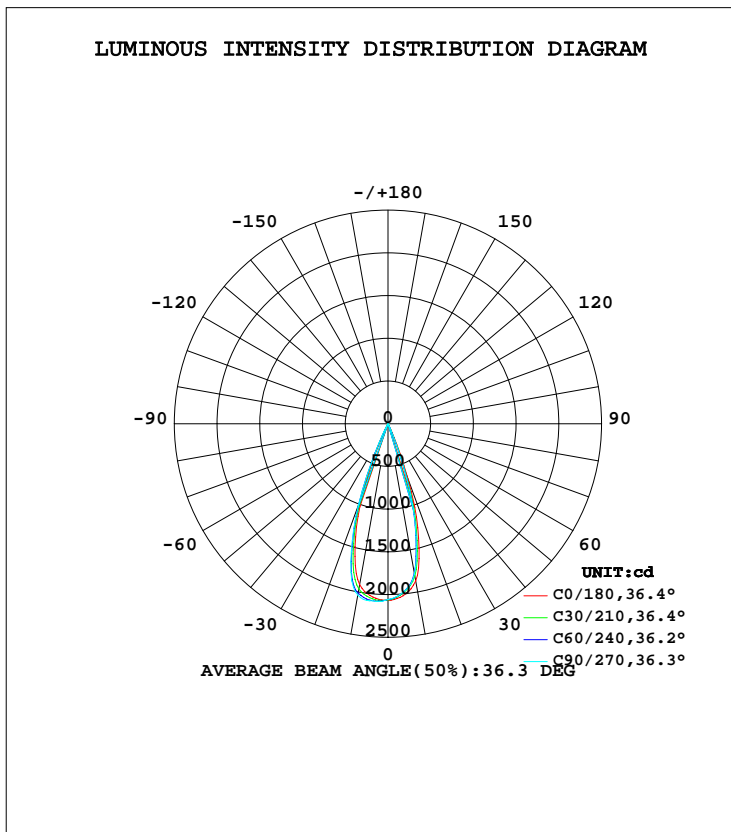


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: Spot50-s-3000k-Ra90-10w-36D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD Avenue Lighting	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	ML4050-BLK	Imax(cd)	2085	S/MH(C0/180)	0.53
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.50
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	682.43	η UP, DN(C0-180)	0.2, 44.6
NOMINAL FLUX(lm)	682.429	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 55.0
LAMPS INSIDE	1	η up(%)	0.4	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	24	η down(%)	99.6	CIBSE SHR MAX	0.55



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:tang
 Test Date:2022-04-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-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	1867	1790	1785	1828	1911	1992	2035	1960	0- 10	189.7	189.7	27.8,27.8
20	676.5	543.2	527.1	663.2	838.4	970.9	1009	870.7	10- 20	383.2	572.9	83.9,83.9
30	10.47	9.192	9.231	10.45	14.71	16.86	19.40	16.60	20- 30	98.80	671.7	98.4,98.4
40	3.778	3.625	3.764	3.951	4.051	4.035	4.359	4.200	30- 40	4.096	675.8	99,99
50	2.059	1.947	2.019	2.173	2.193	2.159	2.342	2.263	40- 50	2.274	678.0	99.4,99.4
60	0.8554	0.7412	0.7825	0.9955	0.9990	1.010	1.062	0.9790	50- 60	1.357	679.4	99.6,99.6
70	0	0	0	0.0002	0	0.0144	0.0194	0.0001	60- 70	0.3886	679.8	99.6,99.6
80	0	0	0	0	0	0	0	0	70- 80	0.0002	679.8	99.6,99.6
90	0	0	0	0	0	0	0	0	80- 90	0	679.8	99.6,99.6
100	0	0	0	0	0	0	0	0	90-100	0	679.8	99.6,99.6
110	0	0	0	0	0	0	0	0	100-110	0	679.8	99.6,99.6
120	0	0	0	0	0	0	0	0	110-120	0	679.8	99.6,99.6
130	0	0	0	0	0	0	0	0	120-130	0	679.8	99.6,99.6
140	0.1549	0.2453	0.2792	0.1934	0.1801	0.0992	0.0703	0.1464	130-140	0.0204	679.8	99.6,99.6
150	1.277	1.446	1.493	1.333	1.186	1.013	0.9759	1.119	140-150	0.3866	680.2	99.7,99.7
160	2.839	3.018	3.064	2.876	2.706	2.483	2.443	2.589	150-160	0.8940	681.1	99.8,99.8
170	3.996	4.110	4.158	4.030	3.871	3.709	3.708	3.823	160-170	0.9386	682.0	99.9,99.9
180	4.648	4.596	4.592	4.599	4.653	4.585	4.587	4.592	170-180	0.4031	682.4	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

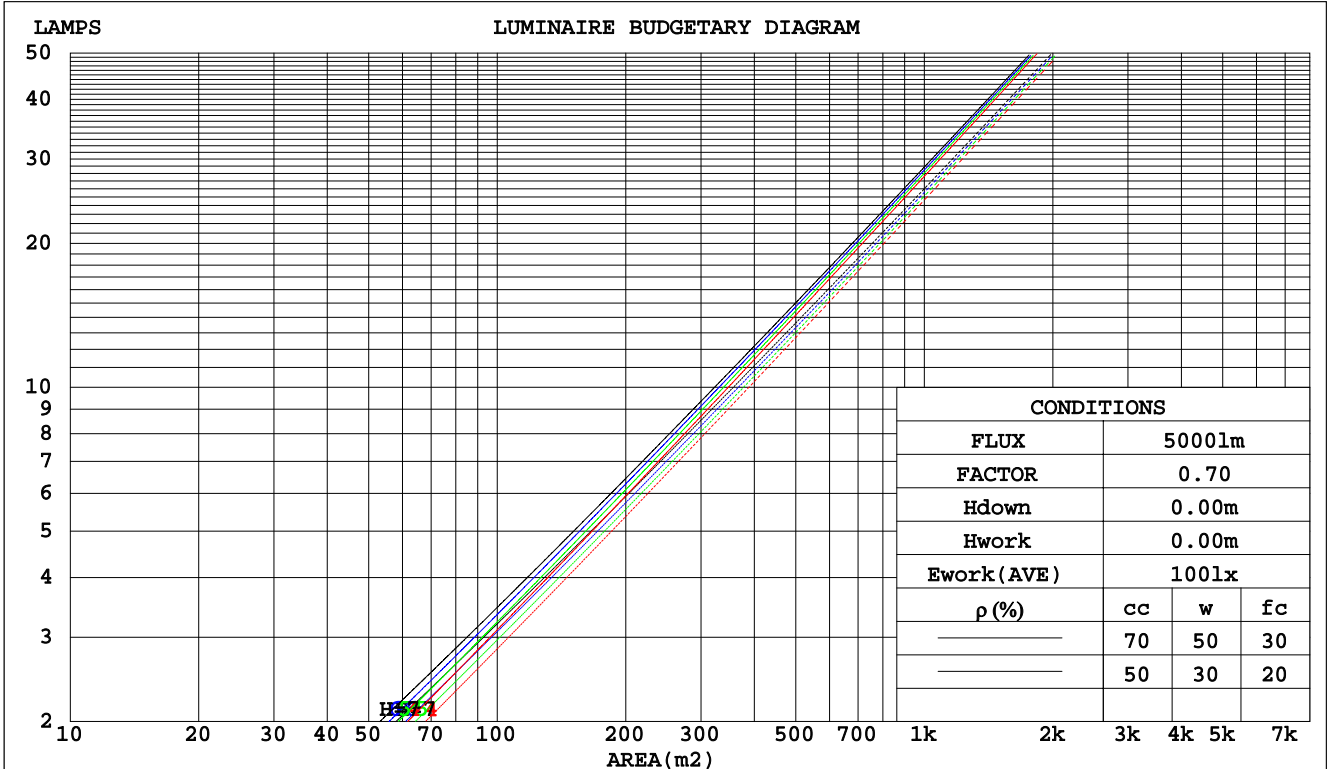
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-13

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

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: Spot50-s-3000k-Ra90-10w-36D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
pfc	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	1.08	1.05	1.02	1.06	1.03	1.01	1.03	1.00	.99	.00	.98	.96	.97	.96	.94	.93
3.0	1.03	.99	.96	1.02	.98	.96	.99	.96	.94	.97	.95	.93	.95	.93	.91	.90
4.0	.99	.95	.92	.98	.94	.91	.96	.93	.90	.94	.91	.89	.92	.90	.88	.87
5.0	.95	.91	.88	.94	.90	.88	.93	.89	.87	.91	.88	.86	.90	.87	.85	.84
6.0	.92	.88	.85	.91	.87	.84	.90	.86	.84	.89	.86	.83	.87	.85	.83	.82
7.0	.89	.85	.82	.88	.84	.81	.87	.84	.81	.86	.83	.81	.85	.82	.80	.79
8.0	.86	.82	.79	.85	.82	.79	.85	.81	.78	.84	.80	.78	.83	.80	.78	.77
9.0	.83	.79	.76	.83	.79	.76	.82	.79	.76	.81	.78	.76	.81	.78	.76	.75
10.0	.81	.77	.74	.80	.77	.74	.80	.76	.74	.79	.76	.74	.79	.76	.73	.73



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: tang
 Test Date: 2022-04-13

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

WEC AND CCEC

NAME: Spot50-s-3000k-Ra90-10w-36D	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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.137	.078	.025	.131	.075	.024	.118	.068	.022	.106	.061	.020	.096	.055	.018	
2.0	.127	.070	.021	.122	.067	.021	.111	.062	.019	.102	.057	.018	.093	.052	.017	
3.0	.118	.063	.019	.114	.061	.018	.105	.057	.017	.097	.053	.016	.090	.050	.015	
4.0	.111	.058	.017	.107	.056	.017	.100	.053	.016	.093	.050	.015	.087	.047	.014	
5.0	.105	.053	.015	.102	.052	.015	.095	.050	.015	.089	.047	.014	.084	.045	.013	
6.0	.099	.050	.014	.097	.049	.014	.091	.047	.014	.086	.045	.013	.081	.043	.013	
7.0	.095	.047	.013	.092	.046	.013	.087	.044	.013	.083	.043	.012	.079	.041	.012	
8.0	.090	.044	.012	.088	.043	.012	.084	.042	.012	.080	.041	.012	.076	.039	.011	
9.0	.087	.042	.012	.085	.041	.012	.081	.040	.011	.077	.039	.011	.074	.038	.011	
10.0	.083	.040	.011	.081	.039	.011	.078	.038	.011	.075	.037	.011	.072	.036	.010	

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						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	.161	.151	.147	.138	.130	.100	.095	.090	.058	.055	.052	.018	.018	.017	
2.0	.153	.136	.121	.131	.117	.105	.090	.081	.073	.052	.047	.043	.017	.015	.014	
3.0	.138	.116	.099	.119	.100	.086	.081	.070	.060	.047	.041	.035	.015	.013	.012	
4.0	.126	.101	.082	.108	.087	.071	.074	.061	.050	.043	.036	.030	.014	.012	.010	
5.0	.115	.089	.069	.099	.077	.060	.068	.054	.042	.040	.031	.025	.013	.010	.008	
6.0	.107	.079	.059	.092	.068	.051	.063	.048	.036	.037	.028	.021	.012	.009	.007	
7.0	.099	.071	.050	.085	.061	.044	.059	.043	.031	.034	.025	.019	.011	.008	.006	
8.0	.093	.064	.044	.080	.055	.038	.055	.039	.027	.032	.023	.016	.010	.008	.005	
9.0	.087	.058	.039	.075	.050	.034	.052	.035	.024	.030	.021	.014	.010	.007	.005	
10.0	.082	.053	.034	.071	.046	.030	.049	.033	.021	.029	.019	.013	.009	.006	.004	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-13

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

Uncorrected UGR Table

NAME: Spot50-s-3000k-Ra90-10w-36D					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	-14.8	-14.2	-14.6	-14.0	-13.9	-14.8	-14.1	-14.6	-14.0	-13.8				
3H	-14.9	-14.3	-14.7	-14.1	-13.9	-14.9	-14.3	-14.7	-14.1	-13.9				
4H	-15.0	-14.4	-14.8	-14.2	-14.0	-15.0	-14.4	-14.7	-14.2	-14.0				
6H	-15.1	-14.6	-14.8	-14.3	-14.1	-15.1	-14.5	-14.8	-14.3	-14.0				
8H	-15.1	-14.6	-14.8	-14.4	-14.1	-15.1	-14.6	-14.8	-14.3	-14.1				
12H	-15.2	-14.7	-14.9	-14.4	-14.1	-15.2	-14.7	-14.8	-14.4	-14.1				
4H 2H	-14.8	-14.3	-14.6	-14.1	-13.8	-14.8	-14.2	-14.5	-14.0	-13.8				
3H	-15.0	-14.5	-14.7	-14.2	-13.9	-15.0	-14.4	-14.6	-14.2	-13.9				
4H	-15.1	-14.6	-14.7	-14.3	-14.0	-15.1	-14.6	-14.7	-14.3	-14.0				
6H	-15.2	-14.8	-14.8	-14.4	-14.1	-15.2	-14.7	-14.8	-14.4	-14.1				
8H	-15.2	-14.9	-14.8	-14.5	-14.1	-15.2	-14.8	-14.8	-14.5	-14.1				
12H	-15.3	-14.9	-14.9	-14.6	-14.2	-15.3	-14.9	-14.9	-14.5	-14.1				
8H 4H	-15.2	-14.9	-14.8	-14.5	-14.1	-15.2	-14.8	-14.8	-14.5	-14.1				
6H	-15.4	-15.0	-14.9	-14.6	-14.2	-15.3	-15.0	-14.9	-14.6	-14.2				
8H	-15.4	-15.1	-15.0	-14.7	-14.3	-15.4	-15.1	-14.9	-14.7	-14.2				
12H	-15.5	-15.2	-15.0	-14.8	-14.3	-15.5	-15.2	-15.0	-14.8	-14.3				
12H 4H	-15.3	-14.9	-14.9	-14.6	-14.2	-15.3	-14.9	-14.9	-14.5	-14.1				
6H	-15.4	-15.1	-15.0	-14.7	-14.3	-15.4	-15.1	-14.9	-14.7	-14.2				
8H	-15.5	-15.2	-15.0	-14.8	-14.3	-15.5	-15.2	-15.0	-14.8	-14.3				
Variations with the observer position at spacings:														
S = 1.0H	+ 1.4 / - 2.3					+ 1.3 / - 2.3								
1.5H	+ 1.5 / - 1.3					+ 1.2 / - 1.1								
2.0H	+ 2.6 / - 6.1					+ 2.6 / - 5.1								

CIE Pub.117 Corrected 682.4 lm Total Lamp Luminous Flux. (8log(F/F0) = -1.3)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-13

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

UTILIZATION FACTORS TABLE

NAME: Spot50-s-3000k-Ra90-10w-36D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

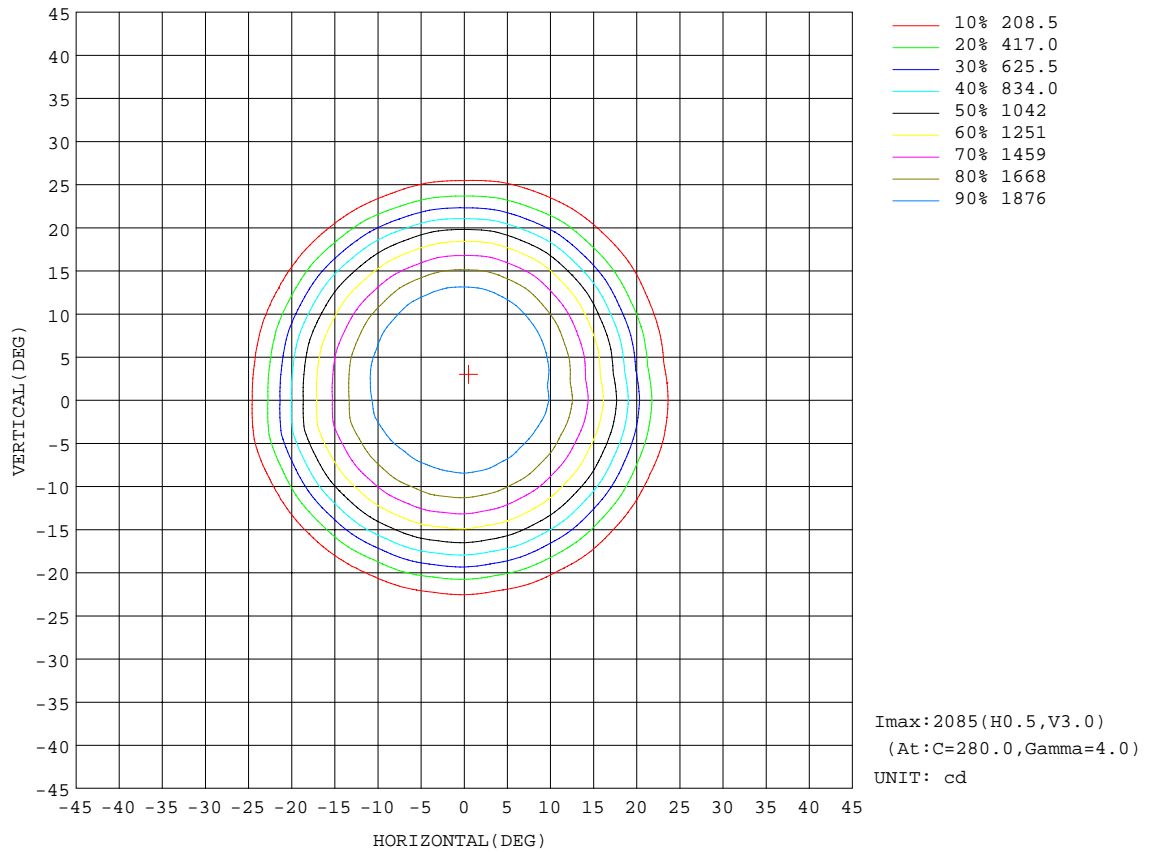
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	91	85	82	90	85	82	90	85	82	78
0.80	98	93	89	97	92	89	96	92	89	86
1.00	102	97	93	101	96	93	99	96	93	89
1.25	105	101	97	104	100	97	102	99	96	92
1.50	108	103	100	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	96
3.00	113	109	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	113	112	110	110	108	107	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHR NOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: tang
 Test Date: 2022-04-13

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

ISOCANDELA DIAGRAM

NAME: Spot50-s-3000k-Ra90-10w-36D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

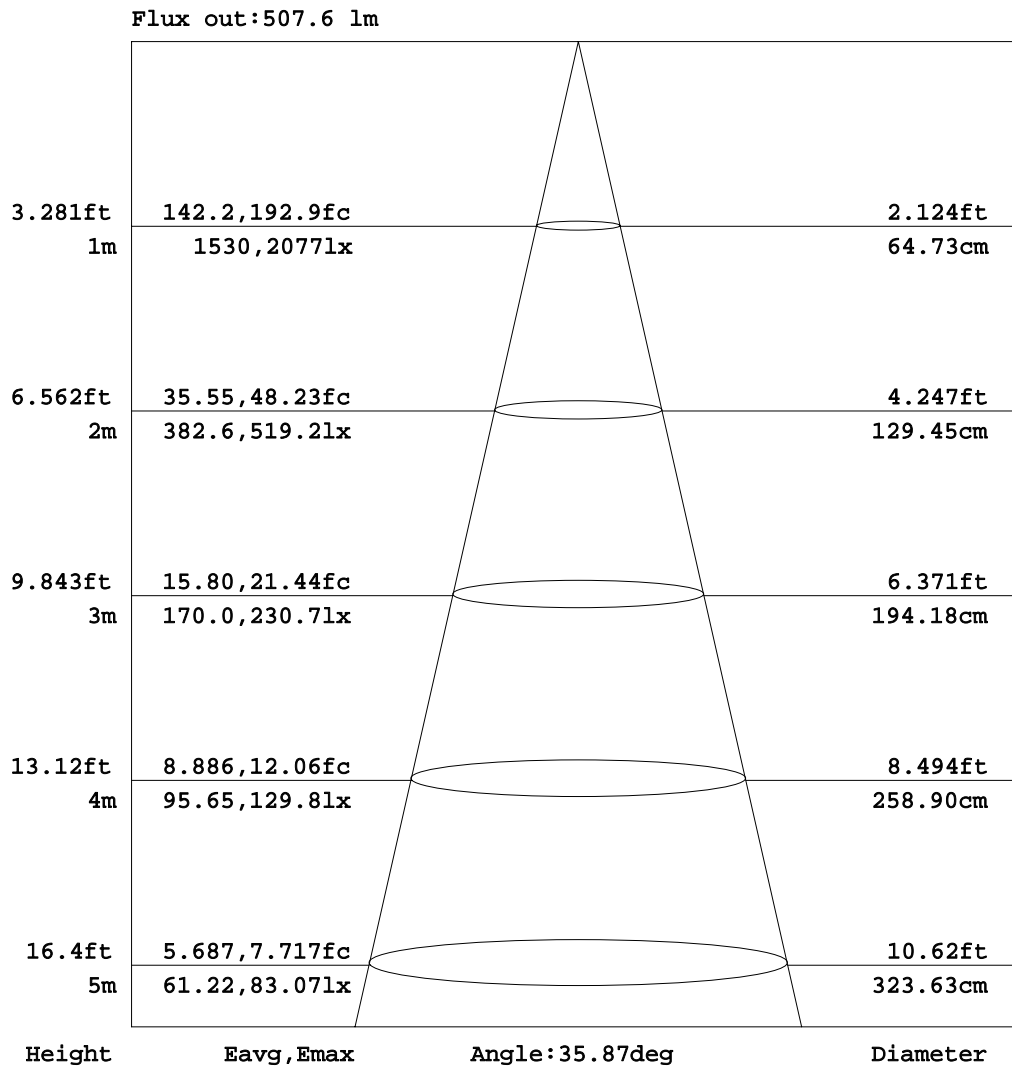


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-13

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

AAI Figure

NAME: Spot50-s-3000k-Ra90-10w-36D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:



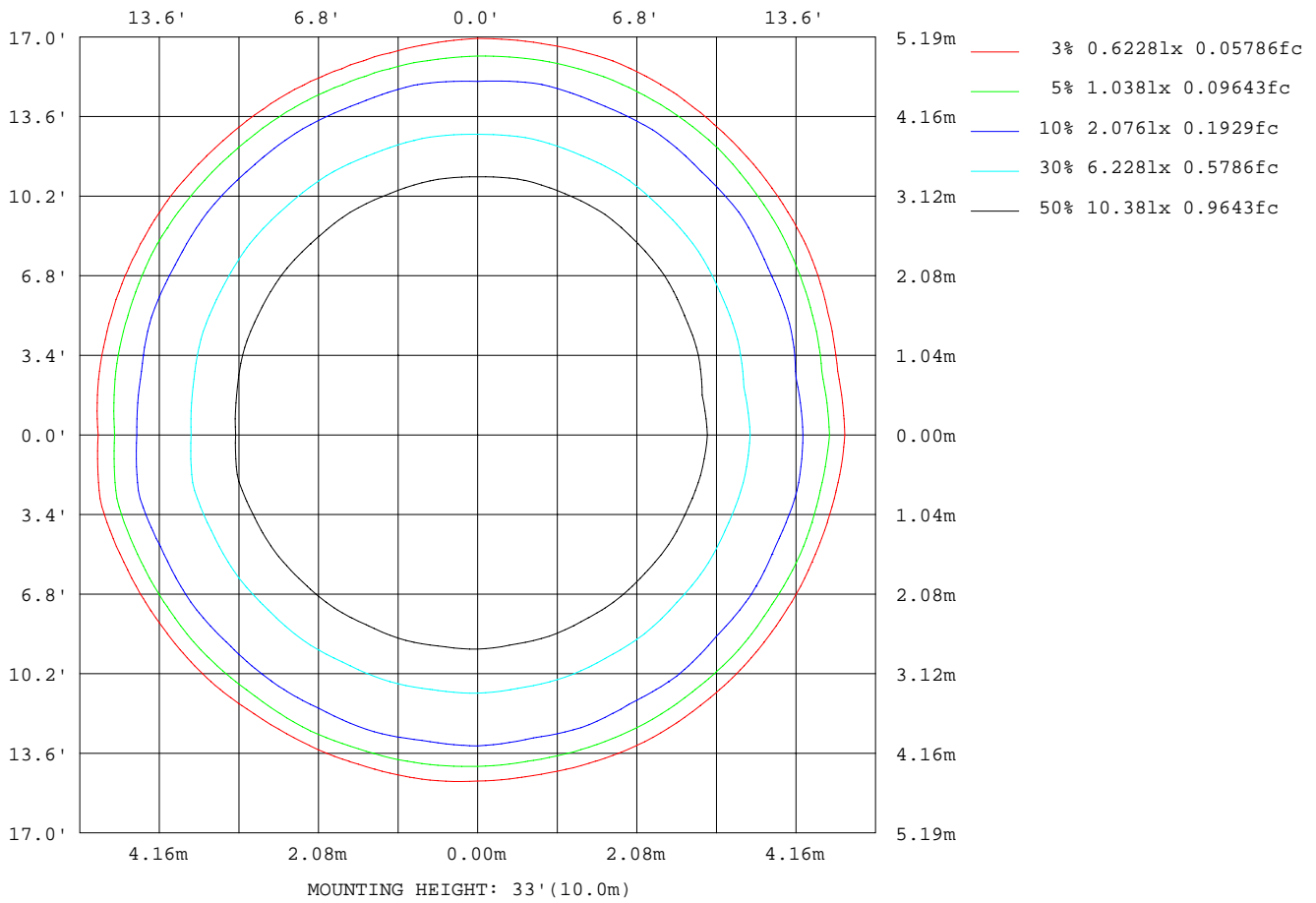
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-13

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

ISOLUX DIAGRAM

NAME: Spot50-s-3000k-Ra90-10w-36D	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: 2022-04-13

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

Average Luminance Table(CIBSE)

NAME: Spot50-s-3000k-Ra90-10w-36D	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	682.429	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	25	24	24	23	24	24	24	24	25	24	26	26	27	27	28	28	29	29	28
60	17	16	16	15	15	15	15	15	16	16	17	17	19	19	21	20	21	21	20
65	8	6	7	6	6	6	7	6	7	6	8	7	9	8	10	9	11	11	10
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	29	200	---	500
Category 2	65 to 90	11	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:2022-04-13

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

Average Luminance Table(CIBSE)

NAME: Spot50-s-3000k-Ra90-10w-36D	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	682.429	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	25	24	24	23	24	24	24	24	25	24	26	26	27	27	28	28	29	29	28
60	17	16	16	15	15	15	15	15	16	16	17	17	19	19	21	20	21	21	20
65	8	6	7	6	6	6	7	6	7	6	8	7	9	8	10	9	11	11	10
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	29	1000	1500	200	500
65 to 90	11	1000	1500	200	500

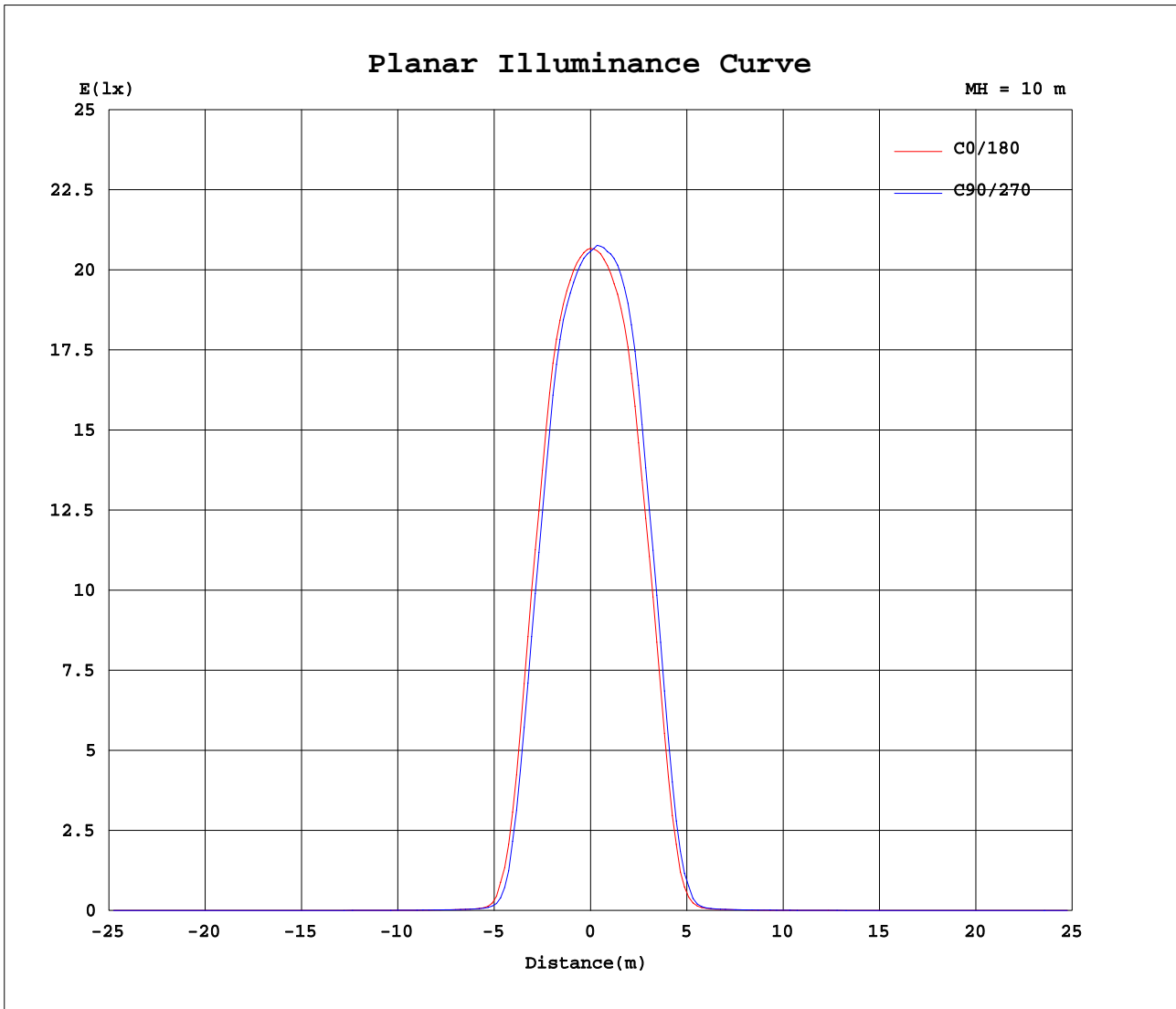
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

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:2022-04-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-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: 2022-04-13

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

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: Spot50-s-3000k-Ra90-10w-36D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	2067	2065	2063	2062	2061	2060	2059	2058	2058	2058	2057	2057	2056	2056	2055	2056	2055	2055	2067
5	2022	2013	2000	1993	1986	1984	1984	1985	1983	1984	1983	1986	1986	1989	1993	2006	2014	2026	2037
10	1867	1852	1824	1809	1792	1788	1776	1781	1777	1785	1784	1796	1800	1822	1835	1860	1878	1903	1911
15	1384	1357	1313	1293	1263	1254	1233	1233	1221	1241	1243	1279	1297	1344	1375	1425	1454	1506	1491
20	676	649	601	580	547	539	516	518	507	527	531	567	586	644	682	750	796	867	838
25	119	97.1	82.7	75.7	66.5	63.9	58.0	56.0	51.8	53.5	54.5	62.6	68.4	84.3	110	125	148	179	162
30	10.5	10.1	9.58	9.45	9.16	9.22	9.09	9.16	9.10	9.23	9.29	9.58	9.74	10.2	10.7	11.6	12.7	15.5	14.7
35	5.47	5.35	5.21	5.17	5.17	5.17	5.20	5.27	5.26	5.32	5.38	5.52	5.53	5.67	5.80	5.97	6.08	6.30	6.11
40	3.78	3.68	3.63	3.57	3.62	3.63	3.68	3.68	3.74	3.76	3.82	3.85	3.91	3.92	3.98	4.03	4.10	4.17	4.05
45	2.79	2.70	2.67	2.63	2.67	2.68	2.72	2.71	2.78	2.76	2.82	2.84	2.89	2.91	2.95	2.99	3.06	3.02	2.97
50	2.06	1.96	1.95	1.91	1.95	1.95	1.99	1.98	2.05	2.02	2.11	2.09	2.16	2.16	2.19	2.19	2.27	2.24	2.19
55	1.45	1.35	1.35	1.32	1.35	1.35	1.38	1.36	1.42	1.39	1.48	1.49	1.57	1.56	1.61	1.58	1.65	1.65	1.59
60	0.86	0.78	0.78	0.73	0.74	0.74	0.77	0.74	0.79	0.78	0.87	0.86	0.94	0.96	1.03	1.01	1.07	1.05	1.00
65	0.32	0.26	0.29	0.24	0.27	0.24	0.28	0.24	0.29	0.26	0.34	0.30	0.37	0.34	0.41	0.40	0.47	0.46	0.41
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	0.15	0.22	0.20	0.25	0.22	0.27	0.23	0.28	0.24	0.28	0.24	0.26	0.21	0.23	0.16	0.18	0.11	0.12	0.18
145	0.62	0.69	0.68	0.74	0.73	0.78	0.75	0.80	0.77	0.80	0.76	0.77	0.71	0.70	0.63	0.63	0.55	0.54	0.58
150	1.28	1.36	1.36	1.42	1.42	1.47	1.46	1.50	1.47	1.49	1.45	1.45	1.39	1.37	1.30	1.27	1.19	1.15	1.19
155	2.05	2.12	2.14	2.21	2.22	2.27	2.26	2.29	2.27	2.28	2.23	2.23	2.16	2.14	2.06	2.04	1.95	1.90	1.92
160	2.84	2.92	2.92	2.99	2.99	3.05	3.03	3.07	3.04	3.06	3.01	3.01	2.93	2.91	2.84	2.81	2.73	2.70	2.71
165	3.46	3.54	3.53	3.61	3.59	3.65	3.62	3.68	3.64	3.67	3.62	3.63	3.55	3.55	3.48	3.47	3.39	3.38	3.34
170	4.00	4.07	4.04	4.11	4.08	4.14	4.10	4.15	4.11	4.16	4.10	4.13	4.06	4.06	4.00	4.01	3.93	3.94	3.87
175	4.44	4.50	4.46	4.49	4.45	4.50	4.46	4.52	4.47	4.52	4.47	4.50	4.44	4.47	4.41	4.45	4.39	4.44	4.39
180	4.65	4.65	4.62	4.62	4.60	4.60	4.59	4.59	4.59	4.59	4.60	4.60	4.60	4.60	4.60	4.61	4.63	4.66	4.65

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-13

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

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: Spot50-s-3000k-Ra90-10w-36D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	2065	2063	2062	2061	2060	2059	2058	2058	2058	2057	2057	2056	2056	2055	2056	2055	2055		
5	2045	2049	2057	2066	2073	2078	2082	2080	2081	2079	2074	2066	2058	2053	2039	2027	2014		
10	1931	1952	1963	1987	1998	2012	2023	2035	2035	2029	2008	1993	1971	1950	1923	1901	1867		
15	1513	1556	1578	1618	1631	1666	1673	1691	1683	1688	1659	1639	1587	1543	1481	1437	1372		
20	863	916	930	968	974	999	999	1022	1009	1020	982	961	894	848	775	727	653		
25	177	198	205	219	224	236	238	267	249	274	245	234	208	185	155	132	112		
30	15.3	16.4	16.3	16.9	16.9	17.6	17.7	18.6	19.4	22.0	22.6	22.0	18.0	15.2	12.5	11.1	9.96		
35	6.13	6.20	6.16	6.30	6.34	6.47	6.50	6.70	6.73	6.95	6.90	6.82	6.43	6.18	5.85	5.57	5.33		
40	4.05	4.03	4.03	4.03	4.04	4.10	4.17	4.27	4.36	4.47	4.51	4.43	4.29	4.11	3.98	3.81	3.72		
45	2.99	2.91	2.94	2.92	2.97	2.97	3.05	3.09	3.18	3.23	3.29	3.21	3.15	3.00	2.93	2.83	2.76		
50	2.21	2.14	2.17	2.14	2.18	2.16	2.25	2.25	2.34	2.38	2.44	2.37	2.33	2.20	2.15	2.06	2.02		
55	1.60	1.54	1.57	1.54	1.57	1.53	1.59	1.58	1.64	1.67	1.73	1.68	1.63	1.52	1.53	1.45	1.42		
60	1.03	1.00	1.03	0.99	1.03	0.97	1.03	1.01	1.06	1.06	1.12	1.07	1.03	0.93	0.91	0.84	0.83		
65	0.45	0.41	0.47	0.43	0.46	0.42	0.47	0.43	0.46	0.43	0.47	0.41	0.41	0.34	0.35	0.28	0.33		
70	0.01	0.00	0.02	0.00	0.03	0.00	0.02	0.00	0.02	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	0.12	0.15	0.09	0.13	0.07	0.11	0.07	0.11	0.07	0.12	0.08	0.14	0.11	0.18	0.15	0.22	0.20		
145	0.51	0.52	0.47	0.48	0.43	0.46	0.41	0.45	0.42	0.47	0.45	0.51	0.50	0.57	0.57	0.64	0.64		
150	1.11	1.09	1.03	1.04	0.99	1.00	0.97	1.00	0.98	1.02	1.01	1.06	1.08	1.15	1.17	1.24	1.27		
155	1.84	1.82	1.74	1.74	1.69	1.70	1.66	1.69	1.67	1.71	1.71	1.78	1.80	1.87	1.90	1.98	2.02		
160	2.61	2.59	2.52	2.51	2.45	2.47	2.42	2.46	2.44	2.48	2.48	2.54	2.55	2.63	2.65	2.74	2.77		
165	3.23	3.24	3.17	3.19	3.13	3.16	3.12	3.16	3.13	3.18	3.17	3.23	3.23	3.30	3.30	3.39	3.41		
170	3.77	3.77	3.70	3.73	3.69	3.72	3.69	3.74	3.71	3.76	3.75	3.80	3.78	3.86	3.85	3.93	3.93		
175	4.31	4.31	4.24	4.27	4.22	4.27	4.22	4.28	4.24	4.29	4.26	4.31	4.29	4.36	4.35	4.42	4.41		
180	4.64	4.64	4.59	4.59	4.58	4.58	4.58	4.58	4.59	4.59	4.58	4.59	4.59	4.60	4.60	4.62	4.65		

C Range: 0 - 360DEG
C Interval: 10.0DEG
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Operators: tang
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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