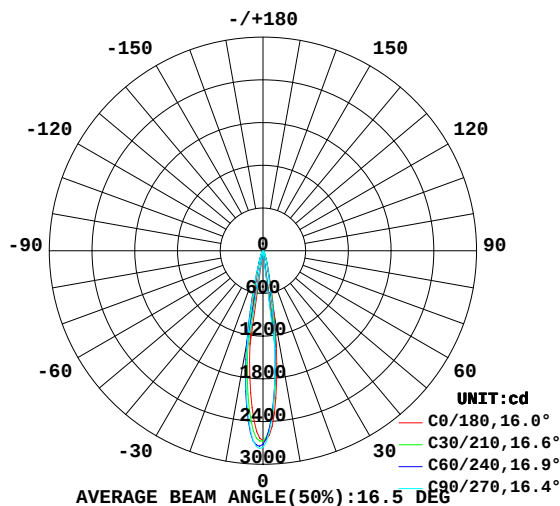


LUMINAIRE PHOTOMETRIC TEST REPORT

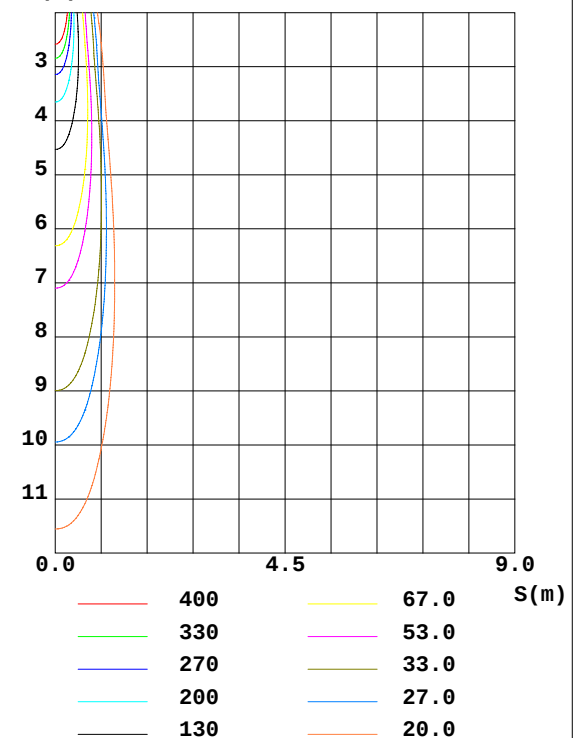
NAME:CL-Spot65-R 3000k-RA90-20D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 36.17 lm/W			
MODEL		I _{max} (cd)	2805	S/MH(C0/180)	0.28
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	0.25
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	321.18	η UP, DN(C0-180)	0.2, 46.2
NOMINAL FLUX(lm)	321.176	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 53.5
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:tang
Test Date:2022-04-13

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	910.7	813.4	750.0	815.1	872.0	1208	1250	1023	0- 10	162.9	162.9	50.7,50.7
20	144.0	137.2	128.6	129.6	127.0	144.5	147.2	133.1	10- 20	99.63	262.5	81.7,81.7
30	40.68	48.01	44.48	40.32	37.41	37.36	37.12	37.84	20- 30	34.03	296.5	92.3,92.3
40	14.52	17.58	17.63	14.88	14.10	13.63	12.75	12.52	30- 40	15.71	312.2	97.2,97.2
50	3.513	4.240	4.099	3.370	3.273	3.326	2.883	2.713	40- 50	6.273	318.5	99.2,99.2
60	0.6241	0.7577	0.6455	0.6065	0.4757	0.3822	0.4064	0.4836	50- 60	1.396	319.9	99.6,99.6
70	0.0001	0.0003	0	0.0000	0	0.0001	0.0002	0	60- 70	0.2017	320.1	99.7,99.7
80	0	0	0	0	0	0	0	0	70- 80	0.0000	320.1	99.7,99.7
90	0	0	0	0	0	0	0	0	80- 90	0	320.1	99.7,99.7
100	0	0	0	0	0	0	0	0	90-100	0	320.1	99.7,99.7
110	0	0	0	0	0	0	0	0	100-110	0	320.1	99.7,99.7
120	0	0	0	0	0	0	0	0	110-120	0	320.1	99.7,99.7
130	0	0	0	0	0	0	0	0	120-130	0	320.1	99.7,99.7
140	0	0.0000	0.0000	0	0.0007	0.0072	0	0.0048	130-140	0.0001	320.1	99.7,99.7
150	0.2872	0.3893	0.4161	0.3350	0.3644	0.3094	0.2874	0.3211	140-150	0.0665	320.2	99.7,99.7
160	1.349	1.439	1.483	1.413	1.341	1.239	1.212	1.284	150-160	0.3630	320.5	99.8,99.8
170	1.939	1.877	1.873	1.895	1.886	1.829	1.831	1.838	160-170	0.4729	321.0	99.9,99.9
180	1.840	1.796	1.793	1.824	1.850	1.805	1.817	1.824	170-180	0.1771	321.2	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

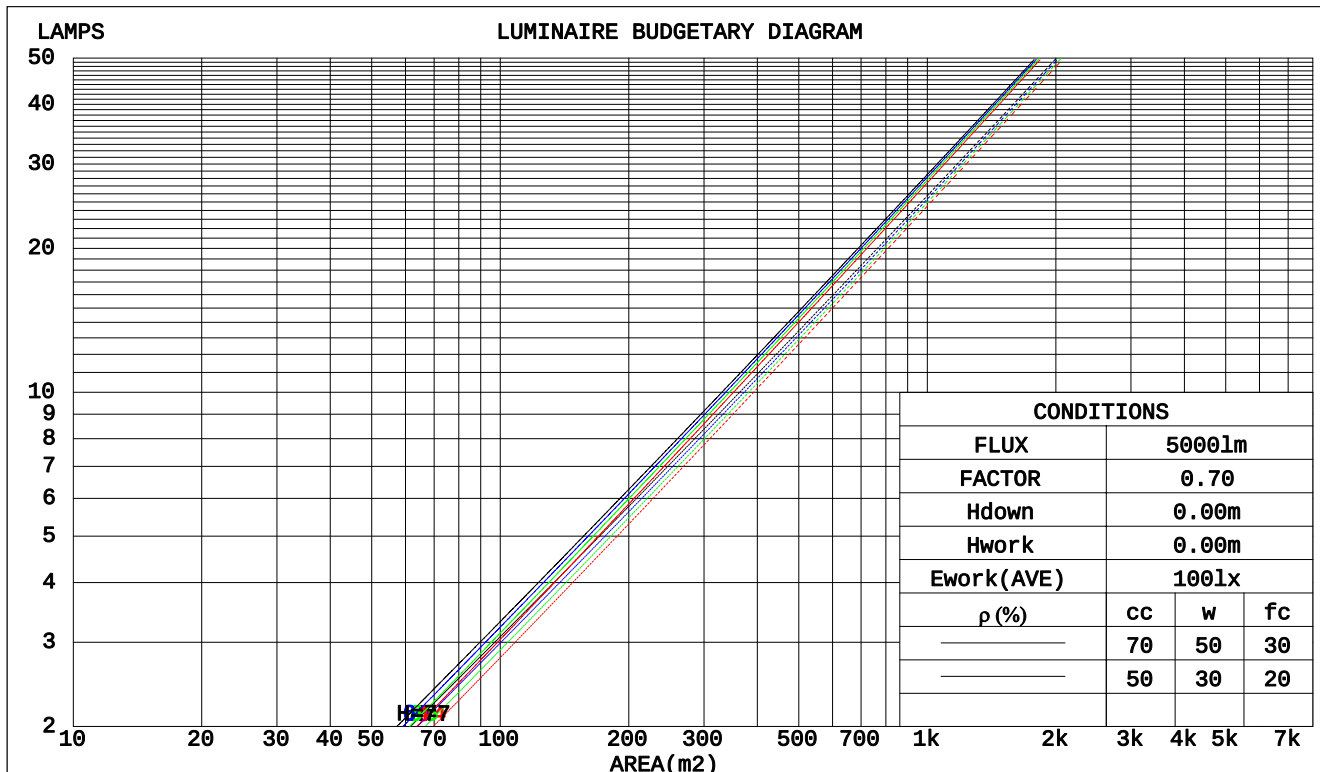
C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:tang
 Test Date:2022-04-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE 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: Spot65-R-3000k-20D-Ra90-8W	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						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	1.09	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	.97	1.00	.98	.96	.98	.96	.94	.96	.94	.93	.92
4.0	1.01	.97	.94	.99	.96	.93	.97	.95	.92	.96	.93	.91	.94	.92	.90	.89
5.0	.97	.94	.91	.96	.93	.90	.95	.92	.90	.93	.91	.89	.92	.90	.88	.87
6.0	.94	.91	.88	.94	.90	.88	.92	.89	.87	.91	.89	.86	.90	.88	.86	.85
7.0	.92	.88	.85	.91	.88	.85	.90	.87	.85	.89	.86	.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	.88	.84	.81	.87	.84	.81	.86	.83	.81	.86	.83	.81	.85	.82	.80	.80
10.0	.86	.82	.80	.85	.82	.79	.85	.81	.79	.84	.81	.79	.83	.81	.79	.78



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 G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: Spot65-R-3000k-20D-Ra90-8W	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	.129	.073	.023	.122	.070	.022	.110	.063	.020	.098	.057	.018	.088	.051	.016		
2.0	.119	.065	.020	.114	.063	.019	.103	.057	.018	.094	.053	.016	.085	.048	.015		
3.0	.111	.059	.018	.106	.057	.017	.097	.053	.016	.090	.049	.015	.082	.045	.014		
4.0	.103	.054	.016	.099	.052	.015	.092	.049	.015	.085	.046	.014	.079	.043	.013		
5.0	.097	.049	.014	.093	.048	.014	.087	.045	.013	.082	.043	.013	.076	.041	.012		
6.0	.091	.046	.013	.088	.045	.013	.083	.043	.012	.078	.041	.012	.073	.039	.011		
7.0	.086	.043	.012	.084	.042	.012	.079	.040	.012	.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	.033	.010		
10.0	.074	.035	.010	.072	.035	.010	.069	.034	.010	.066	.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	.138	.130	.100	.095	.090	.057	.055	.052	.018	.018	.017	
2.0	.152	.135	.121	.130	.117	.105	.089	.081	.073	.051	.047	.043	.016	.015	.014	
3.0	.136	.116	.099	.117	.100	.086	.080	.069	.060	.046	.041	.036	.015	.013	.012	
4.0	.123	.100	.083	.106	.087	.072	.073	.060	.051	.042	.035	.030	.014	.012	.010	
5.0	.113	.088	.070	.097	.076	.061	.067	.053	.043	.039	.031	.025	.012	.010	.008	
6.0	.103	.078	.059	.089	.067	.052	.061	.047	.037	.036	.028	.022	.011	.009	.007	
7.0	.095	.069	.051	.082	.060	.045	.057	.042	.032	.033	.025	.019	.011	.008	.006	
8.0	.089	.063	.045	.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	.022	.027	.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
 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: Spot65-R-3000k-20D-Ra90-8W					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	-3.9	-3.3	-3.7	-3.2	-3.0	-4.3	-3.7	-4.1	-3.6	-3.4				
3H	-4.1	-3.5	-3.8	-3.3	-3.1	-4.4	-3.9	-4.2	-3.7	-3.5				
4H	-4.1	-3.6	-3.9	-3.4	-3.2	-4.5	-4.0	-4.3	-3.8	-3.6				
6H	-4.2	-3.7	-4.0	-3.5	-3.3	-4.6	-4.1	-4.3	-3.9	-3.6				
8H	-4.3	-3.8	-4.0	-3.5	-3.3	-4.7	-4.2	-4.4	-3.9	-3.7				
12H	-4.3	-3.9	-4.0	-3.6	-3.3	-4.7	-4.2	-4.4	-4.0	-3.7				
4H 2H	-4.1	-3.6	-3.9	-3.4	-3.2	-4.5	-4.0	-4.2	-3.8	-3.5				
3H	-4.3	-3.8	-4.0	-3.6	-3.3	-4.7	-4.2	-4.4	-3.9	-3.7				
4H	-4.4	-4.0	-4.1	-3.7	-3.4	-4.8	-4.3	-4.4	-4.0	-3.7				
6H	-4.5	-4.1	-4.1	-3.8	-3.4	-4.9	-4.5	-4.5	-4.2	-3.8				
8H	-4.6	-4.2	-4.2	-3.8	-3.5	-4.9	-4.6	-4.5	-4.2	-3.8				
12H	-4.6	-4.3	-4.2	-3.9	-3.5	-5.0	-4.7	-4.6	-4.3	-3.9				
8H 4H	-4.6	-4.2	-4.2	-3.8	-3.5	-4.9	-4.6	-4.5	-4.2	-3.8				
6H	-4.7	-4.4	-4.2	-4.0	-3.6	-5.0	-4.7	-4.6	-4.3	-3.9				
8H	-4.7	-4.5	-4.3	-4.0	-3.6	-5.1	-4.8	-4.7	-4.4	-4.0				
12H	-4.8	-4.6	-4.3	-4.1	-3.7	-5.2	-4.9	-4.7	-4.5	-4.0				
12H 4H	-4.6	-4.3	-4.2	-3.9	-3.5	-5.0	-4.7	-4.6	-4.3	-3.9				
6H	-4.7	-4.5	-4.3	-4.0	-3.6	-5.1	-4.8	-4.7	-4.4	-4.0				
8H	-4.8	-4.6	-4.3	-4.1	-3.7	-5.2	-4.9	-4.7	-4.5	-4.0				
Variations with the observer position at spacings:														
S = 1.0H	+ 2.5 / -10.9					+ 3.1 / -10.8								
1.5H	+ 3.8 / - 6.5					+ 4.8 / - 7.8								
2.0H	+ 5.7 / - 9.8					+ 6.9 / -11.4								

CIE Pub.117 Corrected 321.2 lm Total Lamp Luminous Flux.(8log(F/F0) = -3.9)

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 G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: Spot65-R-3000k-20D-Ra90-8W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

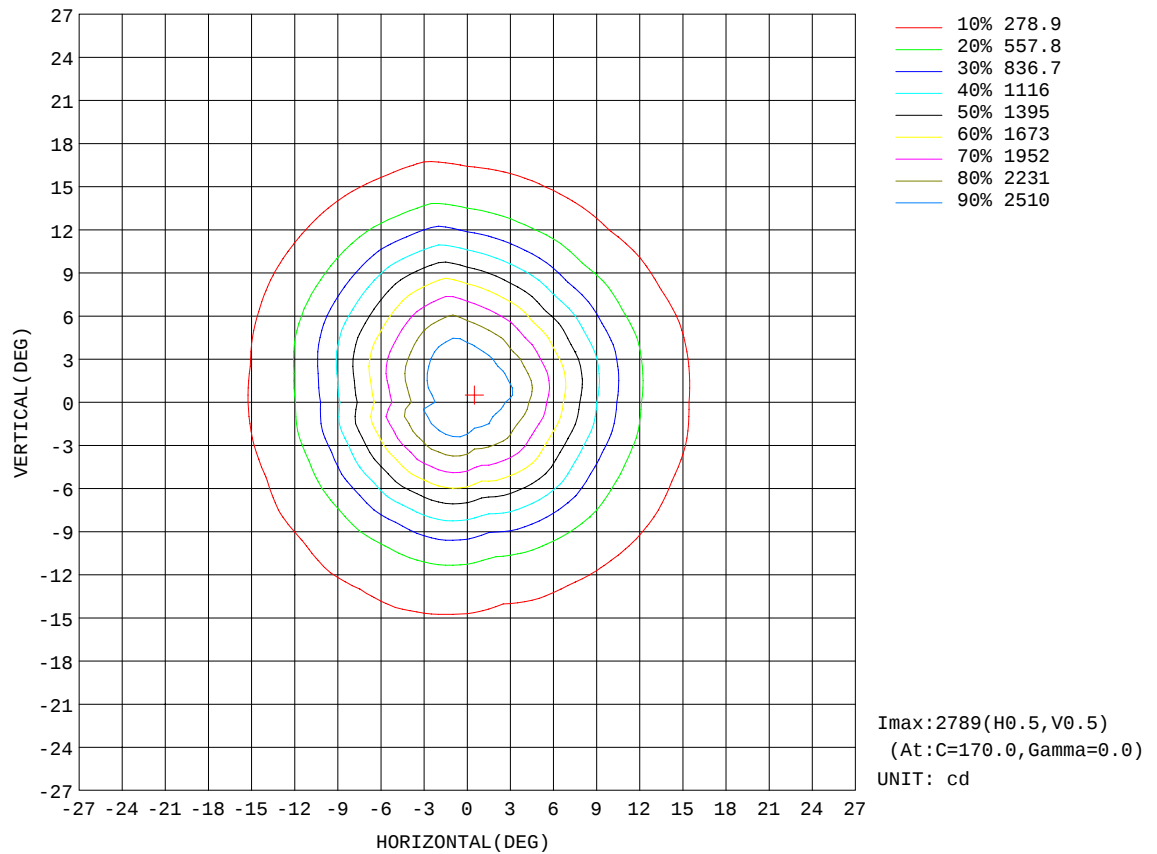
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	80	89	84	80	89	83	80	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	92	100	95	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	95	91
1.50	107	103	100	106	102	99	104	101	98	94
2.00	109	106	103	108	105	102	105	103	100	95
2.50	111	107	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	103	97
4.00	114	112	110	112	110	108	109	107	106	98
5.00	115	113	112	113	112	110	109	108	107	99
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: 2022-04-13

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: Spot65-R-3000k-20D-Ra90-8W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

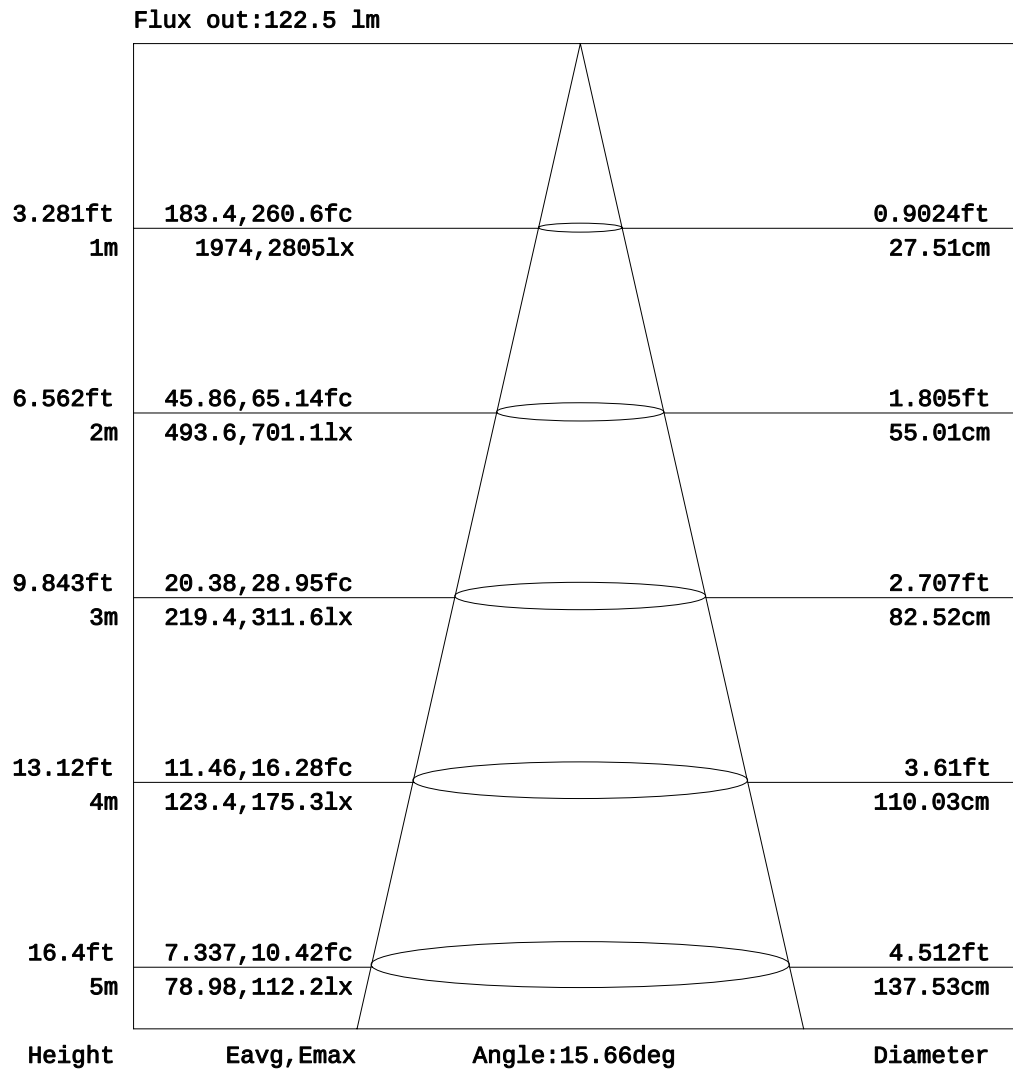


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-13

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

AAI Figure

NAME: Spot65-R-3000k-20D-Ra90-8W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:



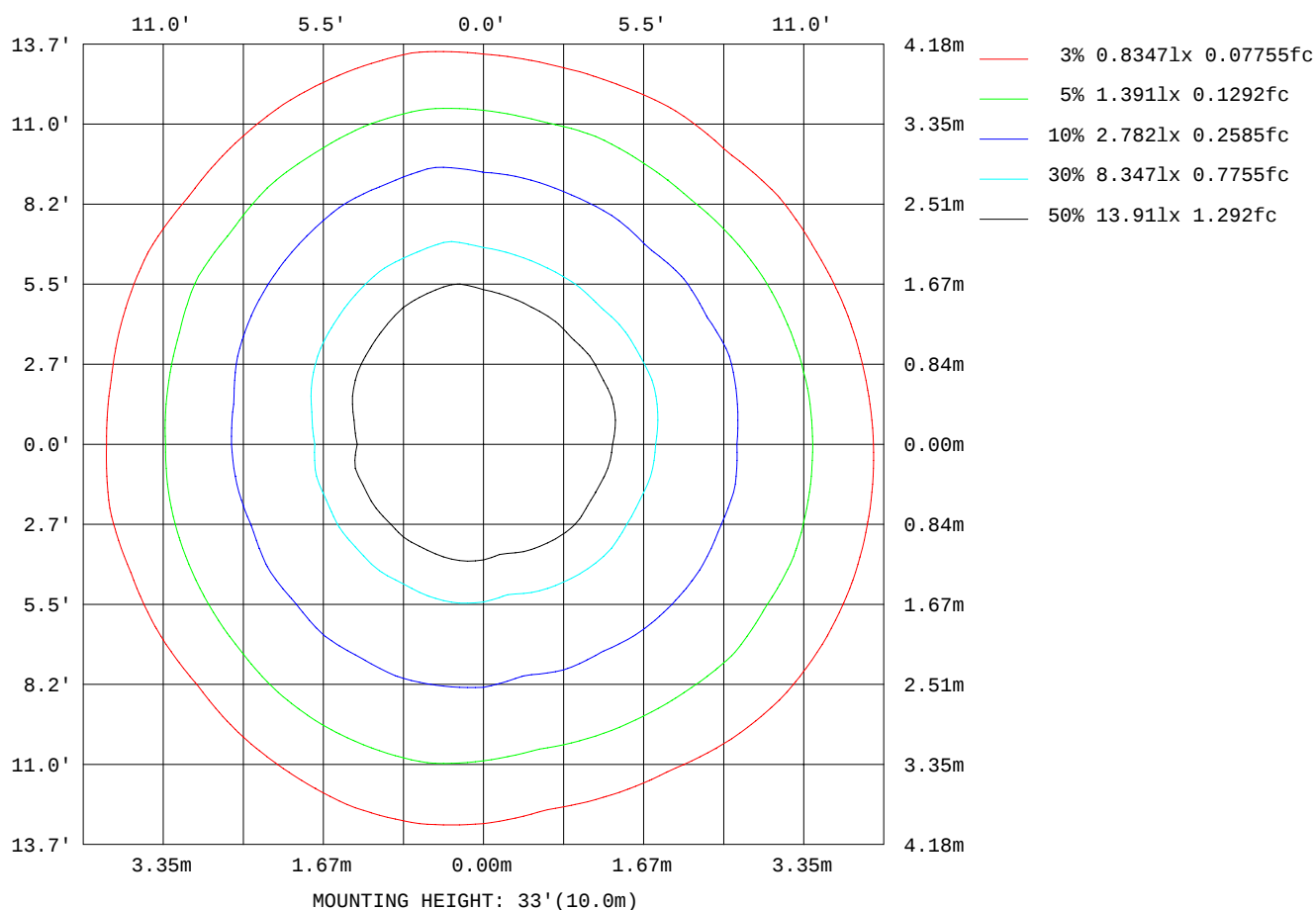
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME: Spot65-R-3000k-20D-Ra90-8W	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 G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

Average Luminance Table(CIBSE)

NAME: Spot65-R-3000k-20D-Ra90-8W	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	321.176	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	25	26	29	32	35	32	27	26	26	28	33	31	26	25	25	25	25	25	22
60	12	13	15	15	16	14	13	12	13	13	15	14	13	12	12	11	11	10	10
65	5	3	5	6	7	5	4	2	3	4	6	5	5	3	5	4	6	5	3
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	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	35	200	---	500
Category 2	65 to 90	7	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 G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

Average Luminance Table(CIBSE)

NAME: Spot65-R-3000k-20D-Ra90-8W	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	321.176	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	26	29	32	35	32	27	26	26	28	33	31	26	25	25	25	25	25	22
60	12	13	15	15	16	14	13	12	13	13	15	14	13	12	12	11	11	10	10
65	5	3	5	6	7	5	4	2	3	4	6	5	5	3	5	4	6	5	3
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	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	35	1000	1500	200	500
65 to 90	7	1000	1500	200	500

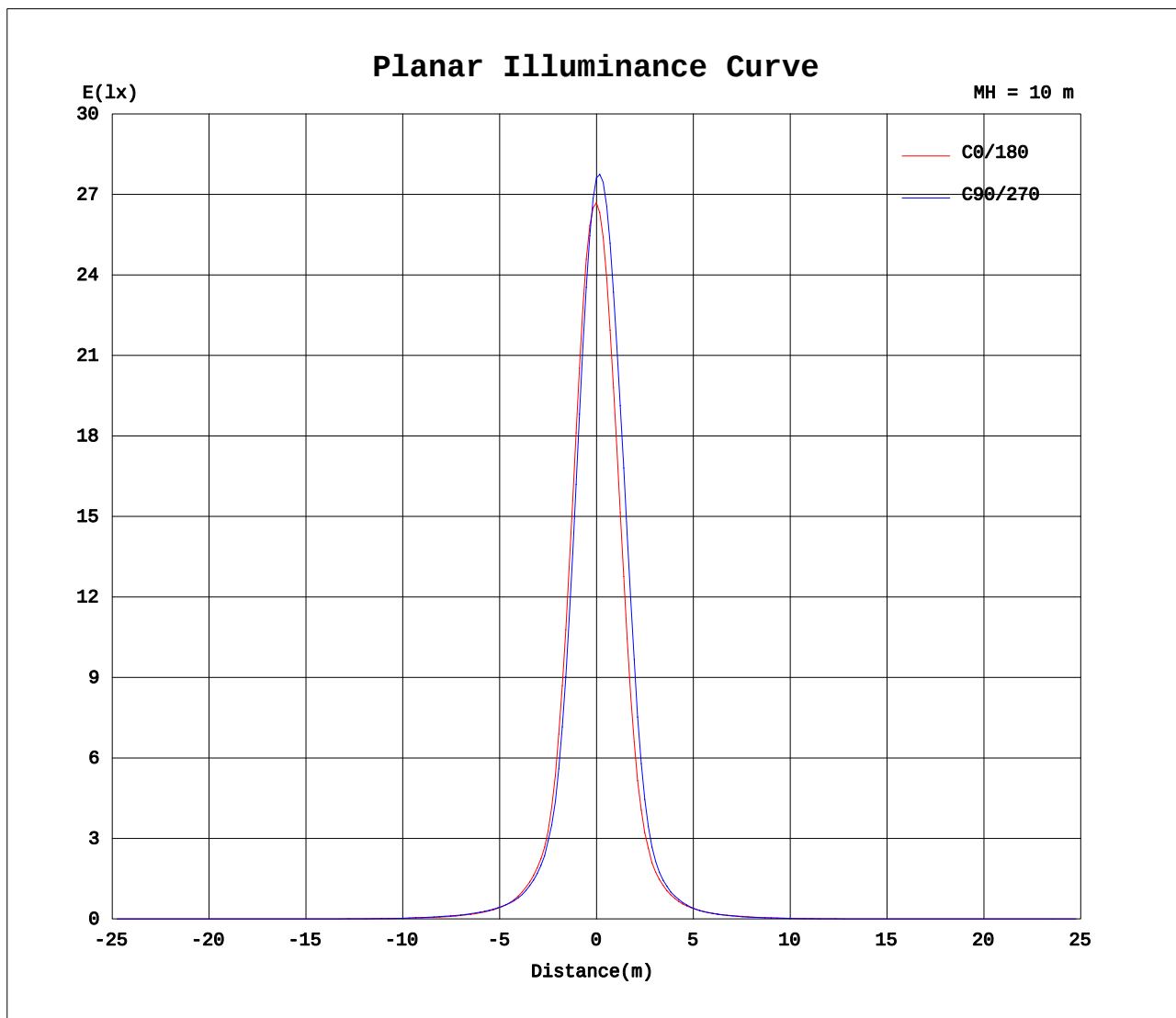
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

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 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: 2022-04-13

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: Spot65-R-3000k-20D-Ra90-8W	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	2669	2668	2667	2670	2701	2706	2718	2726	2726	2762	2786	2796	2803	2802	2802	2804	2803	2805	2669
5	2077	2052	1981	1957	1967	1936	1893	1870	1818	1903	1949	1980	1985	2028	2016	2064	2075	2134	2004
10	911	893	838	818	830	797	763	732	686	750	787	793	777	817	813	844	844	892	872
15	298	304	289	290	280	265	257	251	246	262	275	284	276	287	274	284	273	287	293
20	144	144	145	141	141	133	125	123	120	129	137	136	136	133	127	128	126	130	127
25	71.7	73.9	77.2	79.9	78.7	75.0	70.2	68.5	68.0	72.0	75.0	74.7	71.3	67.7	65.7	67.0	66.5	66.3	65.7
30	40.7	42.6	46.1	49.7	49.2	46.8	43.0	41.1	40.9	44.5	47.3	46.9	43.8	41.1	39.5	40.0	39.4	38.5	37.4
35	24.1	24.9	27.0	30.1	30.4	28.3	25.6	24.6	24.7	27.8	30.0	29.6	26.9	25.1	24.2	24.6	24.3	23.8	23.3
40	14.5	14.8	16.4	18.4	17.9	17.2	15.7	15.3	15.8	17.6	18.5	18.0	16.5	15.5	14.3	14.6	15.6	15.8	14.1
45	7.77	7.51	8.22	9.16	9.21	8.71	7.55	7.04	7.45	8.86	9.58	9.41	8.24	8.07	8.16	8.70	9.17	8.93	7.70
50	3.51	3.50	3.83	4.49	4.35	4.13	3.48	3.23	3.40	4.10	4.48	4.42	3.74	3.48	3.26	3.61	3.90	3.84	3.27
55	1.44	1.51	1.65	1.86	2.03	1.86	1.53	1.49	1.51	1.61	1.91	1.76	1.51	1.46	1.46	1.42	1.45	1.42	1.27
60	0.62	0.65	0.74	0.77	0.80	0.71	0.66	0.58	0.63	0.65	0.73	0.69	0.67	0.61	0.60	0.53	0.54	0.49	0.48
65	0.23	0.15	0.21	0.24	0.30	0.22	0.19	0.08	0.13	0.16	0.25	0.22	0.22	0.14	0.19	0.18	0.24	0.20	0.15
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	0.02	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	0.01
145	0.03	0.09	0.05	0.10	0.06	0.11	0.07	0.12	0.08	0.11	0.05	0.10	0.05	0.09	0.04	0.09	0.05	0.09	0.13
150	0.29	0.35	0.34	0.41	0.36	0.42	0.39	0.43	0.41	0.42	0.35	0.38	0.33	0.35	0.32	0.35	0.32	0.35	0.36
155	0.77	0.84	0.84	0.91	0.86	0.92	0.89	0.95	0.93	0.93	0.86	0.89	0.83	0.85	0.82	0.84	0.81	0.84	0.82
160	1.35	1.41	1.40	1.46	1.41	1.47	1.44	1.49	1.47	1.48	1.42	1.45	1.41	1.43	1.40	1.43	1.38	1.42	1.34
165	1.77	1.82	1.80	1.84	1.79	1.84	1.79	1.85	1.80	1.85	1.80	1.84	1.79	1.84	1.79	1.83	1.80	1.83	1.76
170	1.94	1.90	1.90	1.88	1.88	1.88	1.86	1.87	1.88	1.87	1.88	1.89	1.89	1.90	1.89	1.91	1.92	1.93	1.89
175	1.89	1.84	1.86	1.81	1.84	1.79	1.84	1.79	1.84	1.80	1.87	1.83	1.87	1.83	1.88	1.84	1.90	1.88	1.85
180	1.84	1.84	1.82	1.82	1.80	1.79	1.80	1.80	1.79	1.79	1.82	1.82	1.82	1.82	1.83	1.83	1.85	1.85	1.85

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 G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: Spot65-R-3000k-20D-Ra90-8W	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	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	2668	2667	2670	2701	2706	2718	2726	2726	2762	2786	2796	2803	2802	2802	2804	2803	2805		
5	2065	2160	2226	2269	2334	2396	2420	2450	2363	2306	2264	2244	2179	2185	2159	2168	2146		
10	934	1045	1130	1174	1242	1315	1344	1376	1250	1173	1115	1079	1016	1031	1004	1014	972		
15	294	330	347	358	385	404	412	432	383	354	339	335	306	324	309	329	310		
20	129	135	143	140	149	150	154	154	147	139	140	135	131	135	138	139	142		
25	65.8	67.0	68.5	67.4	69.9	72.4	74.0	75.6	70.2	68.0	67.7	69.2	67.4	69.9	68.8	69.3	69.7		
30	37.8	37.8	37.1	37.0	37.7	38.7	38.7	38.4	37.1	37.0	37.2	37.7	37.4	38.2	38.1	38.9	39.0		
35	23.4	23.7	23.0	22.0	21.9	22.2	21.8	22.2	21.0	21.2	21.7	22.1	21.8	22.5	23.1	23.6	23.3		
40	13.4	13.3	13.5	14.0	13.3	12.1	11.9	11.9	12.8	13.5	13.2	12.2	12.4	12.7	13.1	14.3	14.5		
45	6.80	7.07	7.61	7.98	7.93	7.16	6.31	6.90	6.85	6.97	7.62	7.17	6.67	6.79	6.92	7.18	7.25		
50	2.93	2.94	3.09	3.42	3.23	3.06	2.74	2.82	2.88	3.15	3.09	2.83	2.64	2.78	2.98	3.26	3.29		
55	1.18	1.08	1.13	1.24	1.15	1.05	1.06	1.10	1.11	1.20	1.22	1.11	1.07	1.11	1.14	1.24	1.28		
60	0.51	0.43	0.44	0.38	0.39	0.35	0.41	0.35	0.41	0.40	0.46	0.45	0.50	0.47	0.49	0.47	0.53		
65	0.17	0.12	0.17	0.13	0.16	0.09	0.12	0.09	0.16	0.15	0.19	0.14	0.18	0.15	0.21	0.17	0.22		
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	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	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00		
145	0.08	0.12	0.07	0.11	0.07	0.11	0.07	0.10	0.07	0.11	0.06	0.11	0.07	0.11	0.07	0.11	0.06		
150	0.32	0.35	0.30	0.33	0.29	0.32	0.27	0.31	0.29	0.34	0.29	0.34	0.30	0.34	0.30	0.35	0.31		
155	0.75	0.77	0.71	0.75	0.69	0.72	0.67	0.69	0.69	0.75	0.72	0.76	0.74	0.77	0.74	0.78	0.75		
160	1.26	1.28	1.22	1.27	1.21	1.23	1.18	1.21	1.21	1.27	1.24	1.29	1.26	1.30	1.28	1.31	1.29		
165	1.69	1.71	1.64	1.69	1.64	1.67	1.61	1.65	1.63	1.70	1.67	1.72	1.68	1.73	1.69	1.74	1.70		
170	1.88	1.85	1.85	1.82	1.84	1.85	1.83	1.80	1.83	1.86	1.85	1.84	1.85	1.82	1.87	1.85	1.88		
175	1.86	1.83	1.85	1.81	1.82	1.81	1.83	1.81	1.84	1.82	1.85	1.82	1.85	1.82	1.86	1.84	1.87		
180	1.85	1.83	1.82	1.81	1.80	1.80	1.81	1.81	1.82	1.81	1.82	1.82	1.83	1.82	1.84	1.84	1.86		

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
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Humidity: 65.0%
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Remarks: