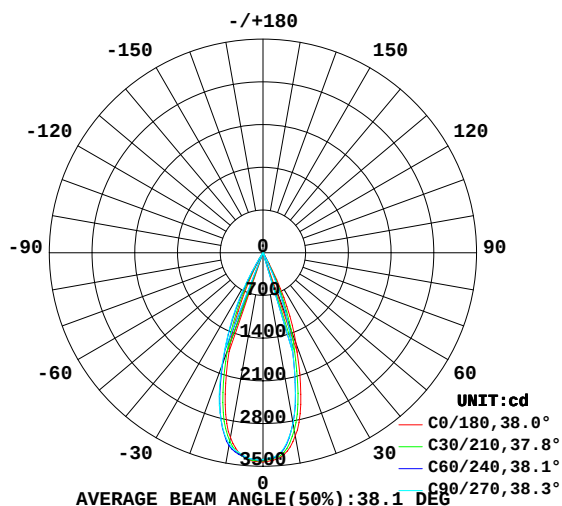


LUMINAIRE PHOTOMETRIC TEST REPORT

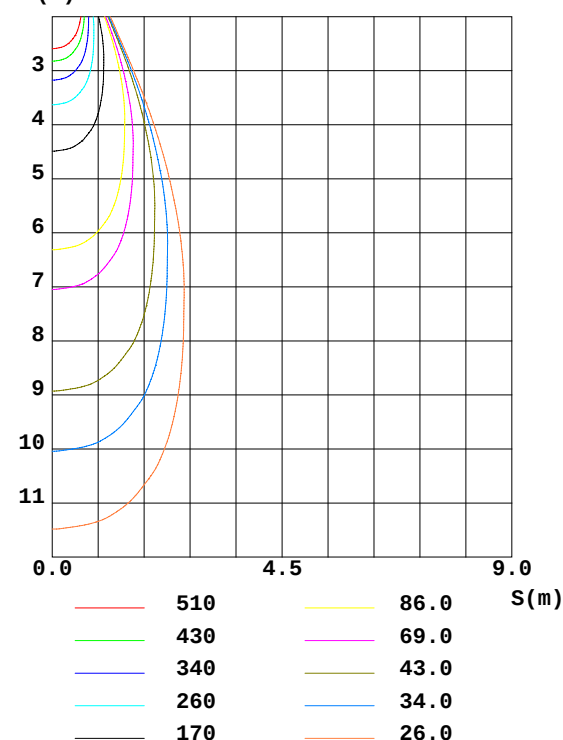
NAME:CL-Spot70 3000k-RA90-36D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 73.14 lm/W			
MODEL		I _{max} (cd)	3427	S/MH(C0/180)	0.61
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	0.53
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1342.8	η UP, DN(C0-180)	0.2, 43.0
NOMINAL FLUX(lm)	1342.76	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 56.6
LAMPS INSIDE	1	η up(%)	0.4	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	24	η down(%)	99.6	CIBSE SHR MAX	0.60

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:2022-04-08

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	3047	2888	2839	2918	3073	3178	3183	3083	0- 10	307.8	307.8	22.9, 22.9
20	1579	1252	1146	1317	1560	1831	1971	1836	10- 20	642.2	950.0	70.8, 70.8
30	133.4	43.70	35.84	44.58	89.66	277.8	428.2	300.7	20- 30	349.6	1300	96.8, 96.8
40	13.89	11.35	10.68	11.10	12.11	14.75	17.06	16.04	30- 40	25.09	1325	98.7, 98.7
50	7.736	6.285	6.025	6.813	7.339	8.175	8.095	7.534	40- 50	7.474	1332	99.2, 99.2
60	2.524	1.528	1.395	1.831	2.232	2.690	3.680	3.110	50- 60	4.168	1336	99.5, 99.5
70	0.0010	0	0	0	0	0.1674	0.3984	0.2148	60- 70	0.9951	1337	99.6, 99.6
80	0	0	0	0	0	0	0	0	70- 80	0.0089	1337	99.6, 99.6
90	0	0	0	0	0	0	0	0	80- 90	0	1337	99.6, 99.6
100	0	0	0	0	0	0	0	0	90-100	0	1337	99.6, 99.6
110	0	0	0	0	0	0	0	0	100-110	0	1337	99.6, 99.6
120	0	0	0	0	0	0	0	0	110-120	0	1337	99.6, 99.6
130	0	0.0215	0.0008	0.0215	0.0429	0.0001	0	0.0001	120-130	0.0009	1337	99.6, 99.6
140	0.6874	0.9838	1.153	0.9955	0.7992	0.5311	0.4238	0.5311	130-140	0.2206	1338	99.6, 99.6
150	2.654	3.093	3.325	3.079	2.655	2.204	2.014	2.193	140-150	0.9913	1339	99.7, 99.7
160	5.118	5.512	5.773	5.516	5.019	4.587	4.415	4.587	150-160	1.755	1340	99.8, 99.8
170	7.185	7.508	7.717	7.506	7.114	6.671	6.563	6.711	160-170	1.702	1342	99.9, 99.9
180	8.466	8.362	8.325	8.322	8.480	8.346	8.287	8.303	170-180	0.7303	1343	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

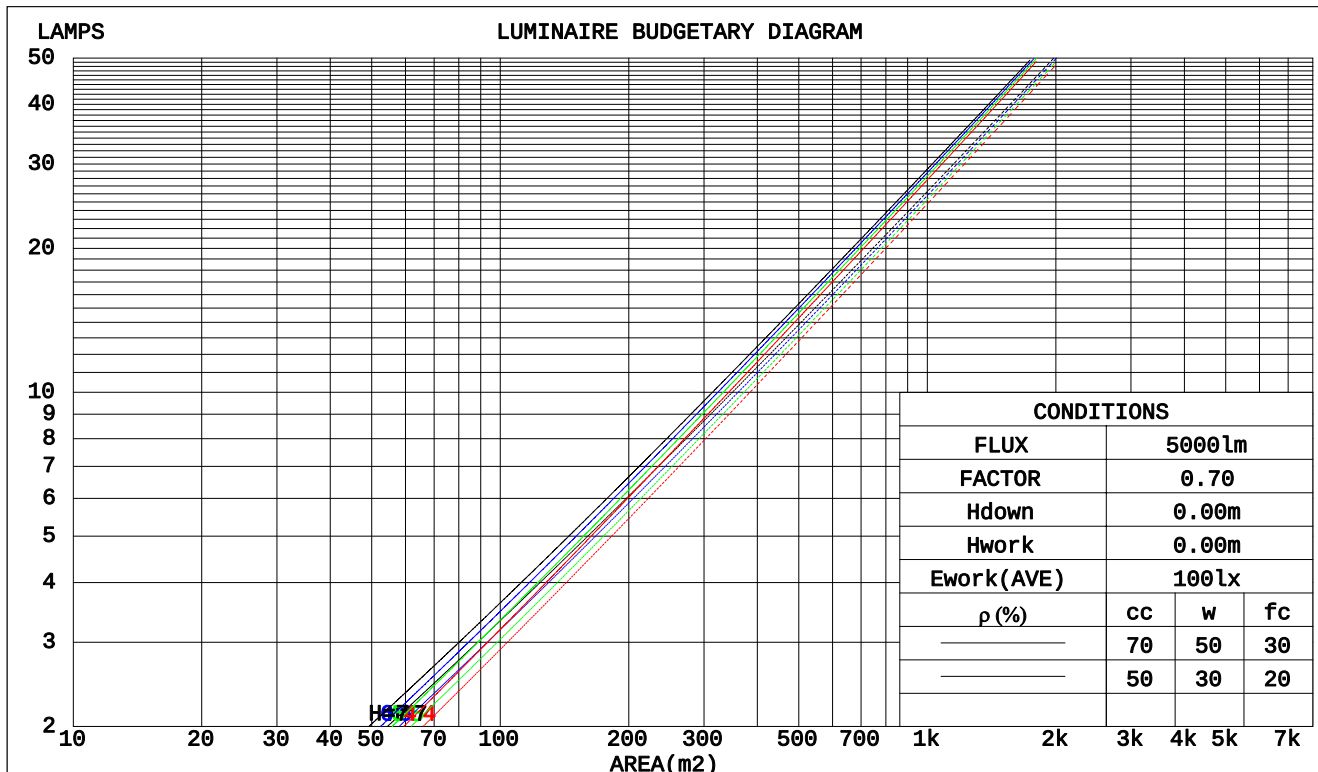
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-08

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: Spot70-3000k-RA90-36D	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	1.12	1.10	1.08	1.10	1.08	1.07	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.07	1.03	1.01	1.05	1.02	.00	1.02	.99	.97	.99	.97	.95	.96	.95	.93	.92
3.0	1.02	.98	.95	1.00	.97	.94	.98	.95	.92	.95	.93	.91	.93	.91	.89	.88
4.0	.97	.93	.89	.96	.92	.89	.94	.90	.88	.92	.89	.87	.90	.88	.86	.85
5.0	.93	.88	.85	.92	.88	.85	.90	.87	.84	.89	.86	.83	.87	.85	.82	.81
6.0	.89	.85	.81	.88	.84	.81	.87	.83	.80	.86	.82	.80	.84	.82	.79	.78
7.0	.86	.81	.78	.85	.81	.78	.84	.80	.77	.83	.79	.77	.82	.79	.76	.75
8.0	.82	.78	.75	.82	.78	.75	.81	.77	.74	.80	.77	.74	.79	.76	.74	.73
9.0	.79	.75	.72	.79	.75	.72	.78	.74	.72	.77	.74	.71	.77	.73	.71	.70
10.0	.77	.72	.69	.76	.72	.69	.76	.72	.69	.75	.71	.69	.74	.71	.69	.68



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-08

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: Spot70-3000k-RA90-36D	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	.146	.083	.026	.139	.079	.025	.126	.072	.023	.115	.066	.021	.104	.060	.019		
2.0	.136	.074	.023	.130	.072	.022	.120	.067	.021	.110	.062	.019	.101	.057	.018		
3.0	.127	.068	.020	.123	.066	.020	.114	.062	.019	.106	.058	.018	.098	.054	.017		
4.0	.120	.062	.018	.116	.061	.018	.109	.058	.017	.102	.055	.016	.095	.052	.016		
5.0	.114	.058	.017	.110	.057	.017	.104	.054	.016	.098	.052	.015	.092	.049	.015		
6.0	.108	.054	.016	.105	.053	.015	.100	.051	.015	.094	.049	.014	.090	.047	.014		
7.0	.103	.051	.014	.101	.050	.014	.096	.048	.014	.091	.047	.014	.087	.045	.013		
8.0	.099	.048	.014	.097	.048	.013	.092	.046	.013	.088	.045	.013	.084	.043	.013		
9.0	.095	.046	.013	.093	.045	.013	.089	.044	.012	.085	.043	.012	.082	.042	.012		
10.0	.091	.044	.012	.089	.043	.012	.086	.042	.012	.083	.041	.012	.080	.040	.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	.194	.194	.194	.165	.165	.165	.113	.113	.113	.065	.065	.065	.021	.021	.021		
1.0	.172	.161	.150	.147	.138	.129	.101	.095	.090	.058	.055	.052	.019	.018	.017		
2.0	.155	.136	.120	.132	.117	.104	.091	.081	.072	.052	.047	.042	.017	.015	.014		
3.0	.140	.116	.098	.120	.100	.085	.082	.070	.059	.048	.041	.035	.015	.013	.011		
4.0	.128	.101	.081	.110	.087	.070	.076	.061	.049	.044	.036	.029	.014	.012	.010		
5.0	.118	.089	.068	.101	.077	.059	.070	.054	.042	.040	.032	.025	.013	.010	.008		
6.0	.110	.079	.057	.094	.069	.050	.065	.048	.035	.038	.028	.021	.012	.009	.007		
7.0	.103	.071	.049	.088	.062	.043	.061	.043	.031	.035	.026	.018	.011	.008	.006		
8.0	.096	.065	.043	.083	.056	.037	.057	.039	.027	.033	.023	.016	.011	.008	.005		
9.0	.091	.059	.038	.078	.051	.033	.054	.036	.023	.032	.021	.014	.010	.007	.005		
10.0	.086	.055	.033	.074	.047	.029	.052	.033	.021	.030	.020	.012	.010	.006	.004		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-08

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: Spot70-3000k-RA90-36D						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	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						-8.5	-7.8	-8.3	-7.6	-7.5	-10.1	-9.4	-9.9	-9.2	-9.1
3H						-8.6	-8.0	-8.4	-7.8	-7.6	-10.3	-9.6	-10.0	-9.4	-9.2
4H						-8.7	-8.1	-8.4	-7.9	-7.6	-10.3	-9.7	-10.1	-9.5	-9.3
6H						-8.8	-8.2	-8.5	-8.0	-7.7	-10.4	-9.8	-10.1	-9.6	-9.4
8H						-8.8	-8.3	-8.5	-8.0	-7.7	-10.5	-9.9	-10.2	-9.7	-9.4
12H						-8.9	-8.3	-8.6	-8.1	-7.8	-10.5	-10.0	-10.2	-9.7	-9.4
4H 2H						-8.6	-8.0	-8.4	-7.8	-7.6	-10.2	-9.6	-9.9	-9.3	-9.1
3H						-8.8	-8.2	-8.5	-8.0	-7.7	-10.4	-9.8	-10.0	-9.5	-9.3
4H						-8.9	-8.4	-8.5	-8.1	-7.8	-10.5	-10.0	-10.1	-9.7	-9.3
6H						-9.0	-8.5	-8.6	-8.2	-7.9	-10.6	-10.1	-10.2	-9.8	-9.4
8H						-9.0	-8.6	-8.7	-8.3	-7.9	-10.6	-10.2	-10.2	-9.8	-9.5
12H						-9.1	-8.7	-8.7	-8.3	-8.0	-10.7	-10.3	-10.3	-9.9	-9.5
8H 4H						-9.0	-8.6	-8.7	-8.3	-7.9	-10.6	-10.2	-10.2	-9.8	-9.5
6H						-9.2	-8.8	-8.7	-8.4	-8.0	-10.7	-10.4	-10.3	-10.0	-9.6
8H						-9.2	-8.9	-8.8	-8.5	-8.0	-10.8	-10.5	-10.3	-10.1	-9.6
12H						-9.3	-9.0	-8.8	-8.6	-8.1	-10.8	-10.6	-10.4	-10.1	-9.7
12H 4H						-9.1	-8.7	-8.7	-8.3	-8.0	-10.7	-10.3	-10.3	-9.9	-9.5
6H						-9.2	-8.9	-8.8	-8.5	-8.0	-10.8	-10.5	-10.3	-10.1	-9.6
8H						-9.3	-9.0	-8.8	-8.6	-8.1	-10.8	-10.6	-10.4	-10.1	-9.7
Variations with the observer position at spacings:															
S = 1.0H						+ 2.1 / - 3.3					+ 1.8 / - 4.0				
1.5H						+ 2.3 / - 2.4					+ 1.4 / - 2.9				
2.0H						+ 3.1 / - 8.5					+ 3.8 / - 8.6				

CIE Pub.117 Corrected 1343 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.0)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-08

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: Spot70-3000k-RA90-36D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

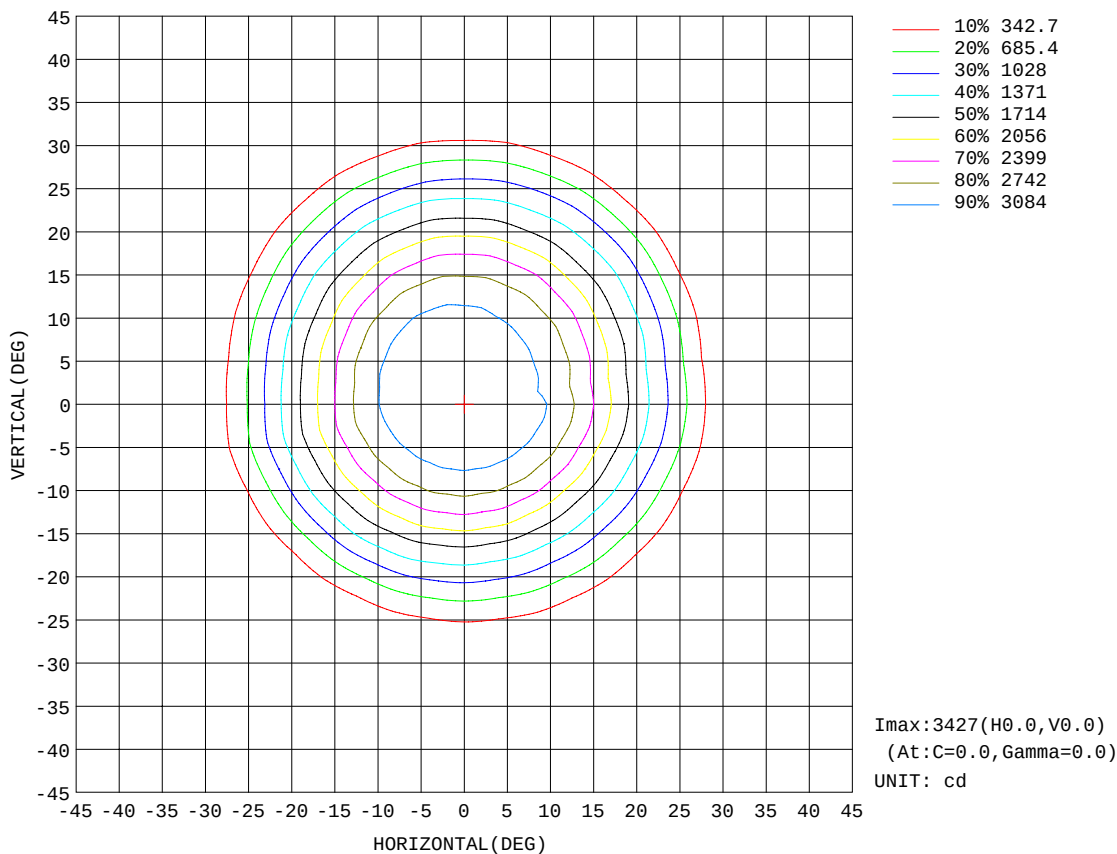
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	82	90	85	82	89	84	81	78
0.80	98	92	89	97	92	89	96	92	89	85
1.00	101	96	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	107	103	100	106	102	100	104	101	99	94
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	106	104	106	104	102	96
3.00	113	109	107	111	108	106	107	105	104	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	116	114	112	113	112	110	109	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: 2022-04-08

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: Spot70-3000k-RA90-36D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

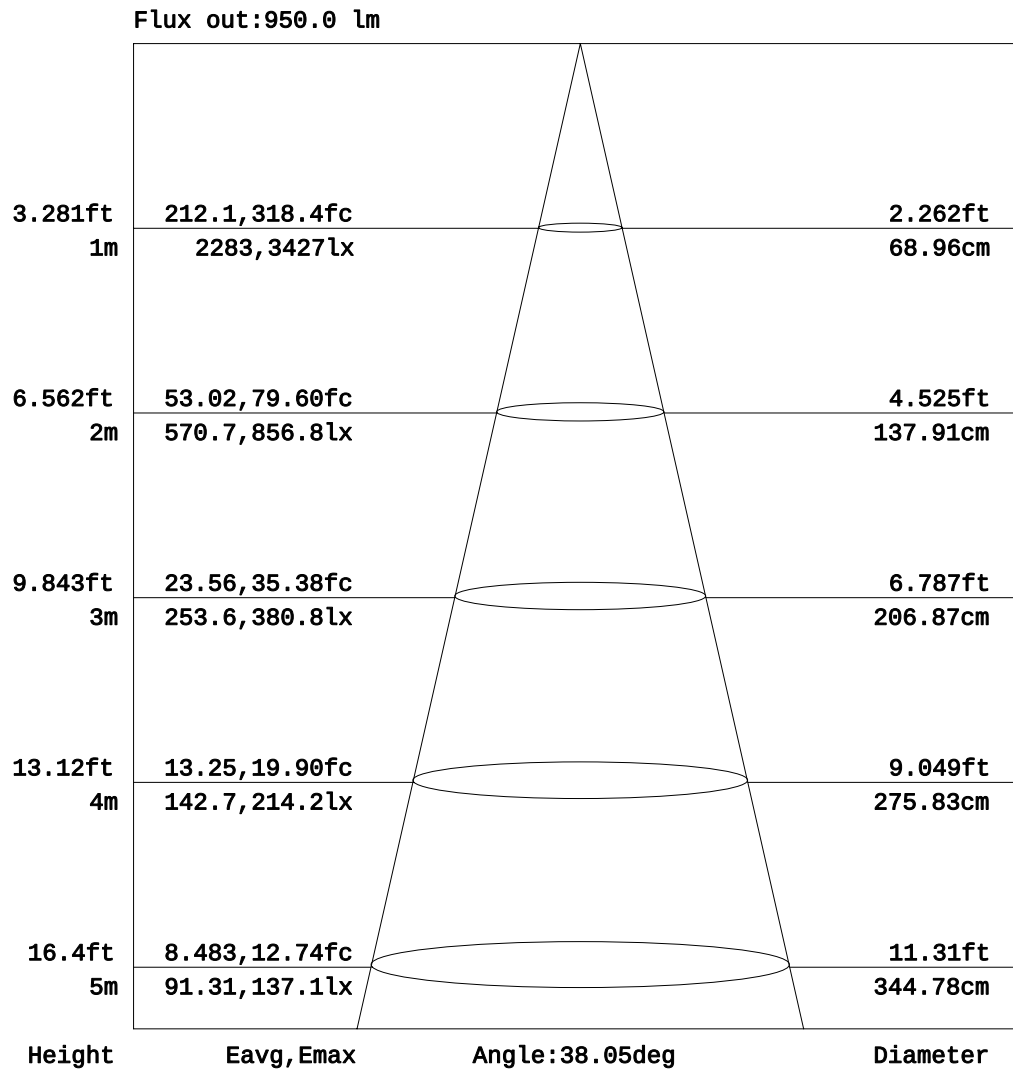


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-08

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: Spot70-3000k-RA90-36D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:



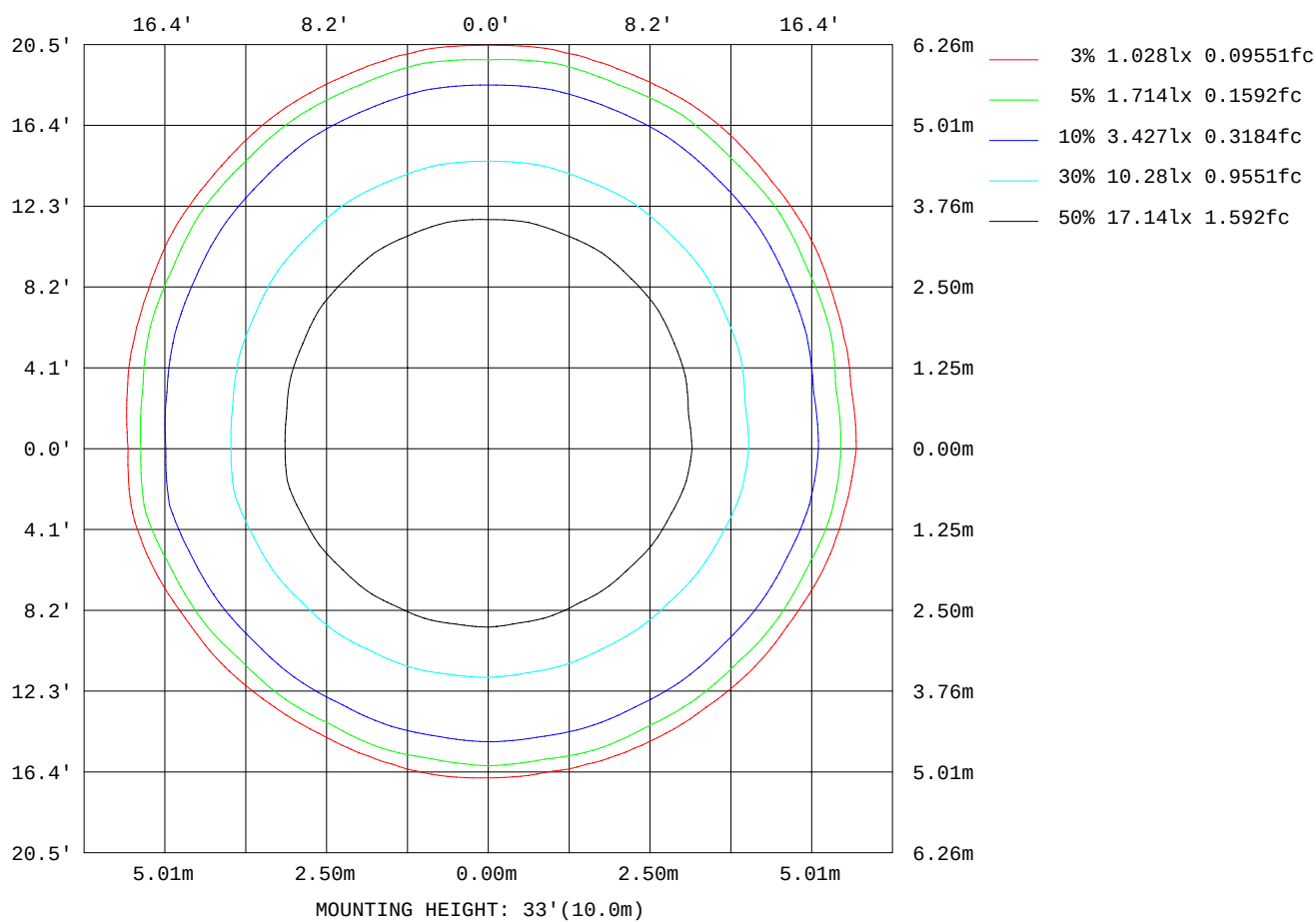
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-08

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: Spot70-3000k-RA90-36D	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: 2022-04-08

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: Spot70-3000k-RA90-36D	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	1342.76	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	91	83	70	65	60	57	55	55	55	56	58	60	62	63	64	66	70	80	79
60	50	47	40	35	32	30	30	28	29	28	28	31	34	36	37	39	43	44	45
65	23	20	16	14	12	10	8	7	8	7	8	7	8	10	12	14	16	20	18
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	91	200	---	500
Category 2	65 to 90	23	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:2022-04-08

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: Spot70-3000k-RA90-36D	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	1342.76	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	91	83	70	65	60	57	55	55	55	56	58	60	62	63	64	66	70	80	79
60	50	47	40	35	32	30	30	28	29	28	28	31	34	36	37	39	43	44	45
65	23	20	16	14	12	10	8	7	8	7	8	7	8	10	12	14	16	20	18
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	91	1000	1500	200	500
65 to 90	23	1000	1500	200	500

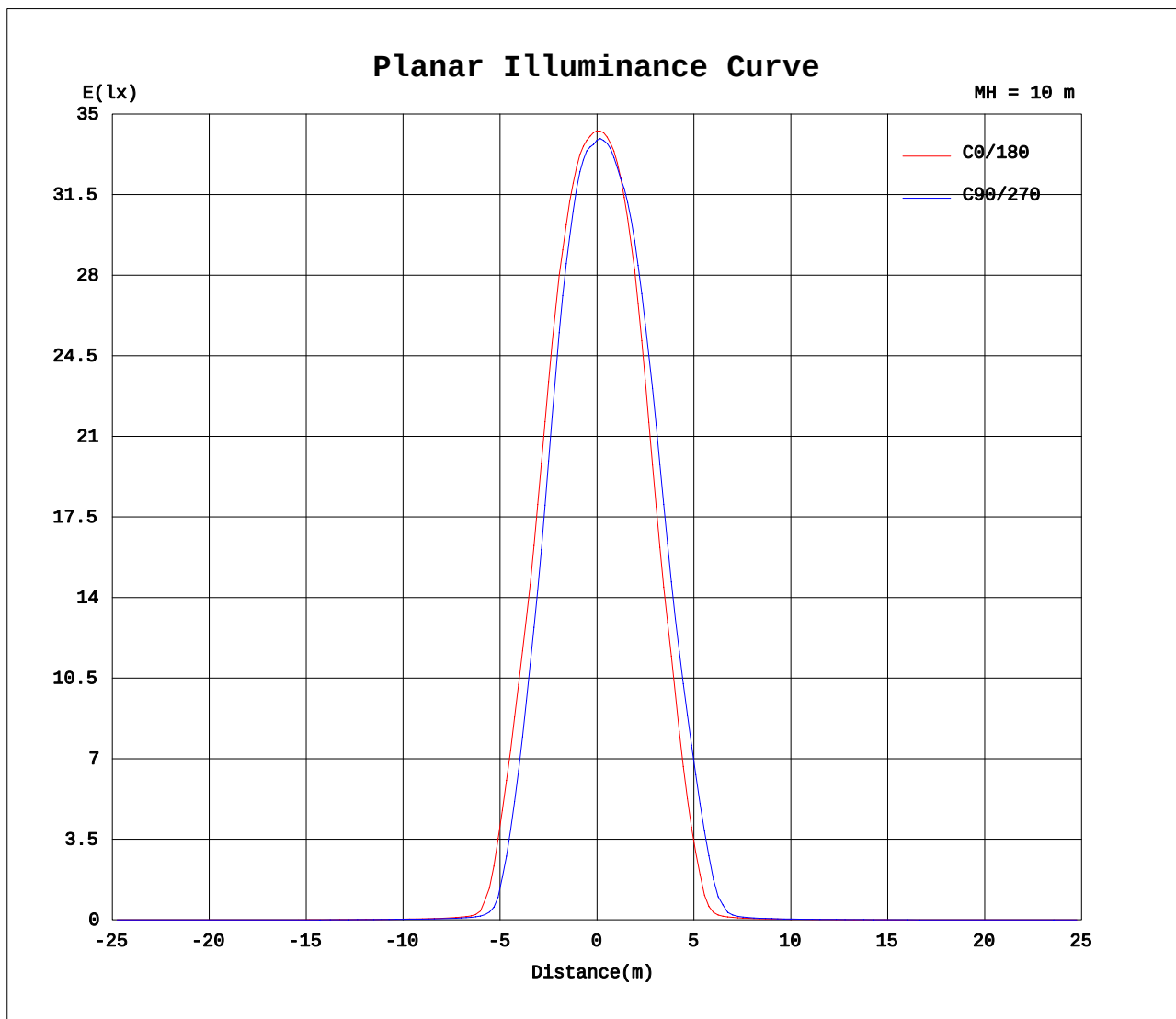
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

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:2022-04-08

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: 2022-04-08

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: Spot70-3000k-RA90-36D	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	3427	3419	3413	3409	3403	3400	3395	3393	3388	3386	3382	3381	3377	3377	3374	3373	3370	3368	3427
5	3363	3355	3342	3335	3322	3316	3298	3295	3285	3287	3279	3284	3283	3290	3290	3300	3309	3322	3378
10	3047	3034	2978	2955	2893	2882	2837	2842	2814	2839	2824	2862	2859	2909	2926	2982	3004	3042	3073
15	2400	2359	2251	2195	2103	2068	2002	2005	1969	2000	1993	2046	2063	2135	2169	2255	2305	2402	2398
20	1579	1528	1430	1366	1274	1231	1172	1158	1129	1146	1152	1194	1219	1300	1334	1425	1481	1566	1560
25	815	754	653	590	513	474	419	402	368	372	359	382	389	443	482	560	625	724	708
30	133	93.6	66.2	55.4	45.4	42.0	37.6	37.0	35.1	35.8	35.2	37.4	38.4	43.0	46.2	55.7	67.5	96.2	89.7
35	22.4	21.3	19.6	18.5	17.5	17.0	16.3	16.1	15.8	15.9	15.9	16.3	16.5	17.2	17.5	18.2	18.8	20.3	19.9
40	13.9	13.3	12.4	12.0	11.5	11.2	10.8	10.7	10.6	10.7	10.6	10.7	10.7	11.1	11.1	11.3	11.6	12.1	12.1
45	9.60	9.49	9.41	9.09	8.65	8.39	8.15	8.13	8.15	8.25	8.34	8.66	8.88	8.85	8.72	8.65	8.69	8.69	8.81
50	7.74	7.77	7.11	6.70	6.43	6.14	5.95	5.98	5.96	6.02	6.14	6.35	6.59	6.83	6.79	6.88	6.92	7.27	7.34
55	5.19	4.75	4.04	3.74	3.42	3.26	3.13	3.13	3.13	3.23	3.33	3.44	3.55	3.62	3.69	3.79	4.04	4.57	4.52
60	2.52	2.34	2.01	1.77	1.58	1.48	1.49	1.42	1.45	1.40	1.42	1.53	1.68	1.80	1.86	1.94	2.14	2.21	2.23
65	0.98	0.85	0.67	0.59	0.52	0.41	0.34	0.29	0.32	0.28	0.32	0.29	0.36	0.43	0.52	0.60	0.69	0.84	0.77
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	0.01	0.00	0.04	0.02	0.07	0.03	0.08	0.04	0.07	0.02	0.04	0.00	0.01	0.00	0.00	0.04
135	0.16	0.23	0.23	0.31	0.31	0.39	0.39	0.45	0.43	0.47	0.43	0.45	0.40	0.40	0.33	0.33	0.24	0.24	0.29
140	0.69	0.77	0.81	0.90	0.94	1.03	1.05	1.12	1.12	1.15	1.12	1.12	1.06	1.04	0.96	0.91	0.80	0.76	0.80
145	1.53	1.62	1.69	1.80	1.87	1.96	2.01	2.08	2.10	2.13	2.10	2.09	2.02	1.97	1.87	1.79	1.65	1.56	1.59
150	2.65	2.75	2.84	2.95	3.05	3.14	3.21	3.27	3.30	3.32	3.31	3.28	3.21	3.14	3.02	2.92	2.77	2.64	2.66
155	3.92	4.02	4.11	4.23	4.31	4.41	4.47	4.54	4.57	4.61	4.59	4.56	4.49	4.40	4.29	4.17	4.01	3.88	3.88
160	5.12	5.22	5.28	5.39	5.46	5.56	5.62	5.69	5.73	5.77	5.76	5.74	5.65	5.58	5.46	5.34	5.18	5.07	5.02
165	6.18	6.29	6.34	6.46	6.51	6.61	6.66	6.75	6.77	6.83	6.80	6.78	6.69	6.63	6.51	6.41	6.28	6.16	6.09
170	7.19	7.28	7.31	7.43	7.46	7.56	7.57	7.66	7.66	7.72	7.68	7.69	7.60	7.56	7.45	7.39	7.27	7.19	7.11
175	8.00	8.09	8.07	8.15	8.12	8.20	8.19	8.26	8.24	8.30	8.24	8.28	8.19	8.20	8.11	8.11	8.02	8.02	8.05
180	8.47	8.47	8.42	8.41	8.36	8.36	8.34	8.34	8.33	8.32	8.33	8.32	8.33	8.32	8.32	8.32	8.34	8.37	8.48

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-08

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: Spot70-3000k-RA90-36D	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	3419	3413	3409	3403	3400	3395	3393	3388	3386	3382	3381	3377	3377	3374	3373	3370	3368		
5	3370	3375	3375	3377	3369	3367	3365	3364	3349	3342	3326	3316	3309	3306	3293	3287	3279		
10	3080	3120	3138	3172	3184	3210	3202	3207	3183	3170	3137	3124	3092	3073	3037	3030	2982		
15	2415	2504	2543	2627	2656	2714	2713	2745	2720	2729	2693	2688	2628	2604	2525	2477	2374		
20	1584	1667	1715	1810	1853	1935	1948	1990	1971	1984	1939	1930	1857	1816	1724	1673	1573		
25	753	847	908	1005	1061	1136	1160	1202	1198	1211	1185	1179	1127	1083	995	924	816		
30	126	148	187	262	293	365	387	433	428	439	401	377	313	288	208	163	133		
35	20.5	22.0	23.4	26.1	28.7	33.1	35.7	39.2	39.3	39.5	36.7	34.4	30.2	28.1	25.8	24.4	22.5		
40	12.4	12.9	13.5	14.4	15.1	15.9	16.4	16.9	17.1	17.3	16.9	16.7	16.2	15.8	15.0	14.4	13.8		
45	8.90	9.15	9.58	9.89	10.1	10.6	10.8	11.2	11.2	11.3	11.2	11.2	10.8	10.6	10.1	9.77	9.43		
50	7.45	7.57	7.71	8.02	8.33	8.56	8.47	8.27	8.09	7.98	7.82	7.76	7.61	7.46	7.25	7.18	7.33		
55	4.53	4.83	5.10	5.59	5.90	6.45	6.60	6.74	6.57	6.23	5.94	5.73	5.56	5.44	5.27	5.26	5.11		
60	2.31	2.40	2.44	2.57	2.81	3.18	3.32	3.52	3.68	3.82	3.68	3.59	3.23	2.99	2.86	2.74	2.54		
65	0.88	1.03	1.10	1.29	1.42	1.40	1.48	1.54	1.64	1.64	1.72	1.62	1.58	1.46	1.25	1.11	0.96		
70	0.00	0.02	0.10	0.13	0.21	0.23	0.30	0.34	0.40	0.37	0.38	0.32	0.27	0.16	0.13	0.02	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	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00		
135	0.22	0.23	0.16	0.17	0.11	0.14	0.08	0.11	0.08	0.12	0.08	0.13	0.10	0.17	0.15	0.22	0.22		
140	0.71	0.68	0.59	0.57	0.49	0.50	0.44	0.46	0.42	0.46	0.44	0.50	0.50	0.56	0.58	0.68	0.71		
145	1.49	1.42	1.32	1.27	1.18	1.15	1.10	1.10	1.07	1.10	1.10	1.15	1.18	1.26	1.31	1.43	1.50		
150	2.56	2.45	2.34	2.25	2.16	2.11	2.06	2.03	2.01	2.03	2.05	2.10	2.15	2.23	2.32	2.45	2.57		
155	3.76	3.65	3.53	3.44	3.35	3.29	3.22	3.20	3.18	3.20	3.20	3.26	3.33	3.42	3.52	3.66	3.79		
160	4.89	4.79	4.69	4.63	4.54	4.50	4.45	4.43	4.42	4.43	4.43	4.49	4.54	4.64	4.73	4.86	4.98		
165	5.92	5.84	5.73	5.68	5.60	5.59	5.54	5.55	5.53	5.56	5.55	5.61	5.64	5.74	5.81	5.95	6.05		
170	6.98	6.88	6.75	6.71	6.63	6.63	6.57	6.60	6.56	6.60	6.59	6.65	6.66	6.76	6.81	6.93	7.00		
175	7.94	7.86	7.74	7.71	7.62	7.62	7.56	7.60	7.55	7.60	7.57	7.63	7.62	7.70	7.73	7.85	7.87		
180	8.46	8.45	8.36	8.36	8.33	8.32	8.30	8.31	8.29	8.30	8.29	8.30	8.30	8.31	8.31	8.34	8.37		

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