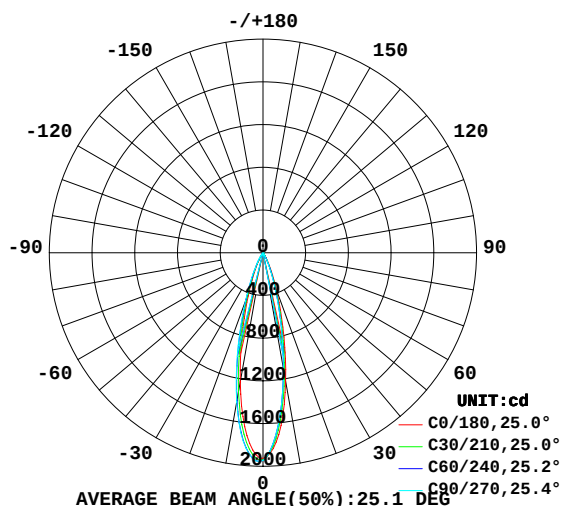


LUMINAIRE PHOTOMETRIC TEST REPORT

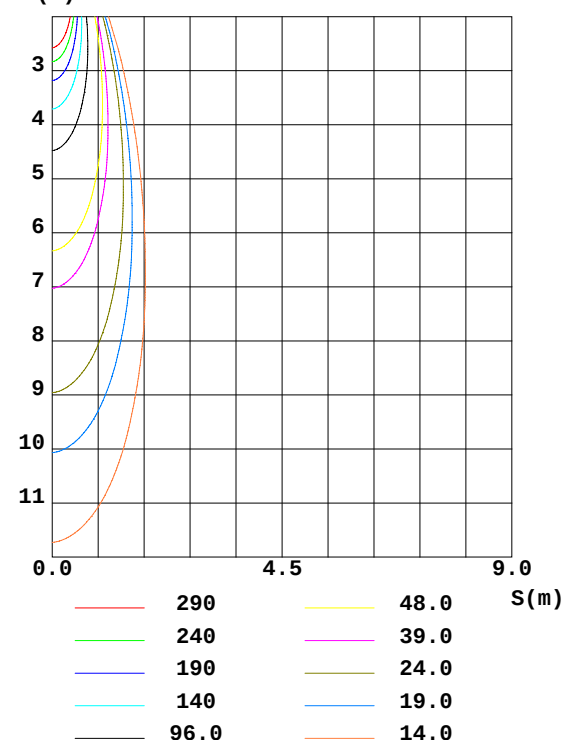
NAME:CL-Spot35 3000k-RA90-5w-40D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 76.95 lm/W			
MODEL		I _{max} (cd)	1964	S/MH(C0/180)	0.42
NOMINAL POWER(W)	5	LOR(%)	100.0	S/MH(C90/270)	0.38
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	461.70	η UP, DN(C0-180)	0.2, 44.9
NOMINAL FLUX(lm)	461.698	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 54.8
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:0
Test Date:2022-04-25

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	1219	1125	1102	1163	1229	1370	1418	1339	0- 10	149.4	149.4	32.4, 32.4
20	366.4	313.8	304.6	334.4	370.0	441.7	479.6	426.4	10- 20	204.3	353.7	76.6, 76.6
30	67.32	53.51	50.27	58.39	68.32	87.02	97.59	84.91	20- 30	83.73	437.5	94.8, 94.8
40	8.787	6.720	6.380	7.474	8.574	11.14	12.88	11.17	30- 40	18.50	456.0	98.8, 98.8
50	1.522	1.223	1.197	1.414	1.531	1.873	2.094	1.805	40- 50	3.110	459.1	99.4, 99.4
60	0.4160	0.3469	0.3203	0.4012	0.4146	0.5023	0.5526	0.4624	50- 60	0.7670	459.8	99.6, 99.6
70	0.0003	0	0	0.0001	0	0.0402	0.0852	0.0213	60- 70	0.1816	460.0	99.6, 99.6
80	0	0	0	0	0	0	0	0	70- 80	0.0012	460.0	99.6, 99.6
90	0	0	0	0	0	0	0	0	80- 90	0	460.0	99.6, 99.6
100	0	0	0	0	0	0	0	0	90-100	0	460.0	99.6, 99.6
110	0	0	0	0	0	0	0	0	100-110	0	460.0	99.6, 99.6
120	0	0	0	0	0	0	0	0	110-120	0	460.0	99.6, 99.6
130	0	0	0	0	0	0	0	0	120-130	0	460.0	99.6, 99.6
140	0.0751	0.1463	0.1986	0.1322	0.1325	0.0685	0.0422	0.0779	130-140	0.0149	460.0	99.6, 99.6
150	0.7258	0.8660	0.9306	0.8306	0.7325	0.6161	0.5704	0.6444	140-150	0.2292	460.3	99.7, 99.7
160	1.797	1.954	2.016	1.918	1.757	1.617	1.566	1.652	150-160	0.5639	460.8	99.8, 99.8
170	2.553	2.614	2.648	2.619	2.530	2.440	2.402	2.466	160-170	0.6164	461.4	99.9, 99.9
180	2.770	2.749	2.756	2.763	2.770	2.749	2.761	2.761	170-180	0.2523	461.7	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

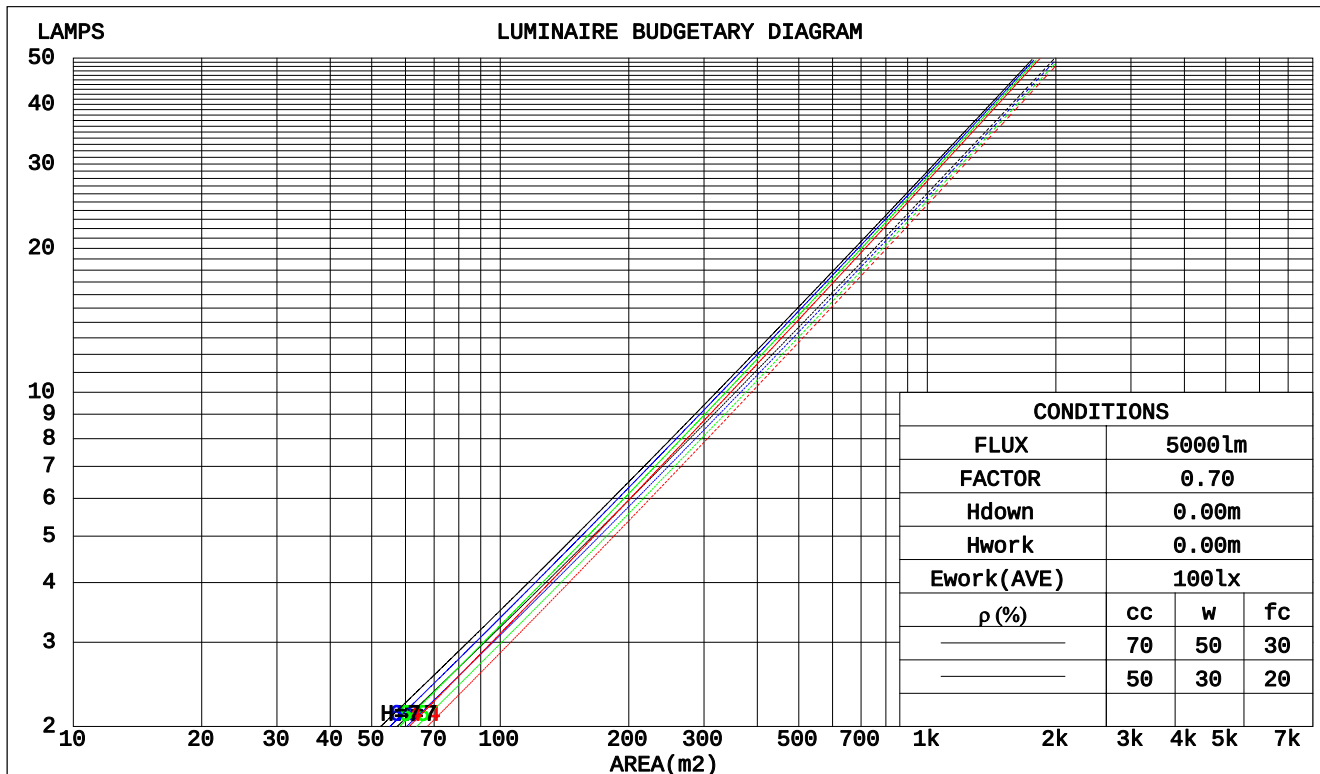
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-04-25

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: Spot35-3000k-RA90-5w-40D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.13	1.11	1.09	1.11	1.09	1.07	1.06	1.05	1.04	1.03	1.02	1.01	.99	.99	.98	.96
2.0	1.07	1.04	1.02	1.06	1.03	1.01	1.02	1.00	.98	.90	.98	.96	.97	.95	.94	.93
3.0	1.03	.99	.96	1.01	.98	.95	.99	.96	.94	.96	.94	.92	.94	.92	.91	.89
4.0	.98	.94	.91	.97	.94	.91	.95	.92	.90	.93	.91	.89	.92	.89	.88	.86
5.0	.95	.90	.87	.94	.90	.87	.92	.89	.86	.91	.88	.85	.89	.87	.85	.84
6.0	.91	.87	.84	.91	.87	.84	.89	.86	.83	.88	.85	.83	.87	.84	.82	.81
7.0	.88	.84	.81	.88	.83	.81	.86	.83	.80	.85	.82	.80	.84	.82	.79	.78
8.0	.85	.81	.78	.85	.81	.78	.84	.80	.78	.83	.80	.77	.82	.79	.77	.76
9.0	.83	.78	.76	.82	.78	.75	.81	.78	.75	.81	.77	.75	.80	.77	.75	.74
10.0	.80	.76	.73	.80	.76	.73	.79	.75	.73	.78	.75	.73	.78	.75	.73	.72



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-04-25

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: Spot35-3000k-RA90-5w-40D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

ρ_{CC}	80%			70%			50%			30%			10%			0	
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.139	.079	.025	.132	.075	.024	.120	.069	.022	.108	.062	.020	.097	.056	.018		
2.0	.129	.071	.022	.124	.068	.021	.113	.063	.020	.104	.058	.018	.095	.054	.017		
3.0	.121	.064	.019	.116	.062	.019	.107	.058	.018	.099	.054	.017	.092	.051	.016		
4.0	.113	.059	.017	.109	.057	.017	.102	.054	.016	.095	.051	.015	.089	.048	.015		
5.0	.107	.055	.016	.104	.053	.015	.097	.051	.015	.091	.048	.014	.086	.046	.014		
6.0	.101	.051	.015	.099	.050	.014	.093	.048	.014	.088	.046	.013	.083	.044	.013		
7.0	.096	.048	.014	.094	.047	.013	.089	.045	.013	.085	.043	.013	.081	.042	.012		
8.0	.092	.045	.013	.090	.044	.013	.086	.043	.012	.082	.041	.012	.078	.040	.012		
9.0	.088	.043	.012	.086	.042	.012	.082	.041	.012	.079	.040	.011	.076	.038	.011		
10.0	.085	.041	.011	.083	.040	.011	.079	.039	.011	.076	.038	.011	.073	.037	.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	.171	.160	.151	.147	.138	.130	.100	.095	.090	.058	.055	.052	.018	.018	.017	
2.0	.153	.136	.120	.131	.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	.126	.101	.081	.108	.087	.071	.074	.061	.050	.043	.036	.029	.014	.012	.010	
5.0	.116	.089	.068	.099	.077	.059	.069	.054	.042	.040	.031	.025	.013	.010	.008	
6.0	.107	.079	.058	.092	.068	.051	.064	.048	.036	.037	.028	.021	.012	.009	.007	
7.0	.100	.070	.050	.086	.061	.044	.059	.043	.031	.034	.025	.018	.011	.008	.006	
8.0	.093	.064	.044	.080	.055	.038	.056	.039	.027	.032	.023	.016	.010	.008	.005	
9.0	.088	.058	.038	.076	.050	.033	.052	.035	.024	.030	.021	.014	.010	.007	.005	
10.0	.083	.053	.034	.071	.046	.030	.050	.033	.021	.029	.019	.013	.009	.006	.004	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-04-25

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: Spot35-3000k-RA90-5w-40D						TYPE:					WEIGHT:				
DIM.:						SPEC.:					SERIAL No.:				
MFR.: 0						SUR.:					PROTECTION ANGLE:				
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3					
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	-7.2	-6.6	-7.0	-6.4	-6.2	-8.6	-8.0	-8.4	-7.8	-7.7					
3H	-7.4	-6.7	-7.1	-6.6	-6.4	-8.8	-8.2	-8.5	-8.0	-7.8					
4H	-7.4	-6.9	-7.2	-6.6	-6.4	-8.9	-8.3	-8.6	-8.1	-7.9					
6H	-7.5	-7.0	-7.2	-6.7	-6.5	-9.0	-8.4	-8.7	-8.2	-7.9					
8H	-7.6	-7.0	-7.3	-6.8	-6.5	-9.0	-8.5	-8.7	-8.2	-8.0					
12H	-7.6	-7.1	-7.3	-6.8	-6.6	-9.0	-8.5	-8.7	-8.3	-8.0					
4H 2H	-7.4	-6.9	-7.2	-6.6	-6.4	-8.9	-8.3	-8.6	-8.1	-7.8					
3H	-7.6	-7.1	-7.3	-6.8	-6.6	-9.0	-8.5	-8.7	-8.3	-8.0					
4H	-7.7	-7.2	-7.4	-6.9	-6.6	-9.1	-8.7	-8.8	-8.4	-8.1					
6H	-7.8	-7.4	-7.4	-7.1	-6.7	-9.2	-8.8	-8.9	-8.5	-8.1					
8H	-7.9	-7.5	-7.5	-7.1	-6.8	-9.3	-8.9	-8.9	-8.5	-8.2					
12H	-7.9	-7.6	-7.5	-7.2	-6.8	-9.3	-9.0	-8.9	-8.6	-8.2					
8H 4H	-7.9	-7.5	-7.5	-7.1	-6.8	-9.3	-8.9	-8.9	-8.5	-8.2					
6H	-8.0	-7.7	-7.6	-7.3	-6.8	-9.4	-9.1	-9.0	-8.7	-8.3					
8H	-8.0	-7.8	-7.6	-7.3	-6.9	-9.5	-9.2	-9.0	-8.8	-8.3					
12H	-8.1	-7.9	-7.6	-7.4	-6.9	-9.5	-9.3	-9.1	-8.8	-8.4					
12H 4H	-7.9	-7.6	-7.5	-7.2	-6.8	-9.3	-9.0	-8.9	-8.6	-8.2					
6H	-8.0	-7.8	-7.6	-7.3	-6.9	-9.5	-9.2	-9.0	-8.8	-8.3					
8H	-8.1	-7.9	-7.6	-7.4	-6.9	-9.5	-9.3	-9.1	-8.8	-8.4					
Variations with the observer position at spacings:															
S = 1.0H	+ 4.5 / -11.3					+ 3.8 / -10.6									
1.5H	+ 6.8 / - 9.1					+ 6.0 / - 7.5									
2.0H	+ 6.3 / - 8.3					+ 5.5 / - 7.2									

CIE Pub.117 Corrected 461.7 lm Total Lamp Luminous Flux.(8log(F/F0) = -2.7)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-04-25

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: Spot35-3000k-RA90-5w-40D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

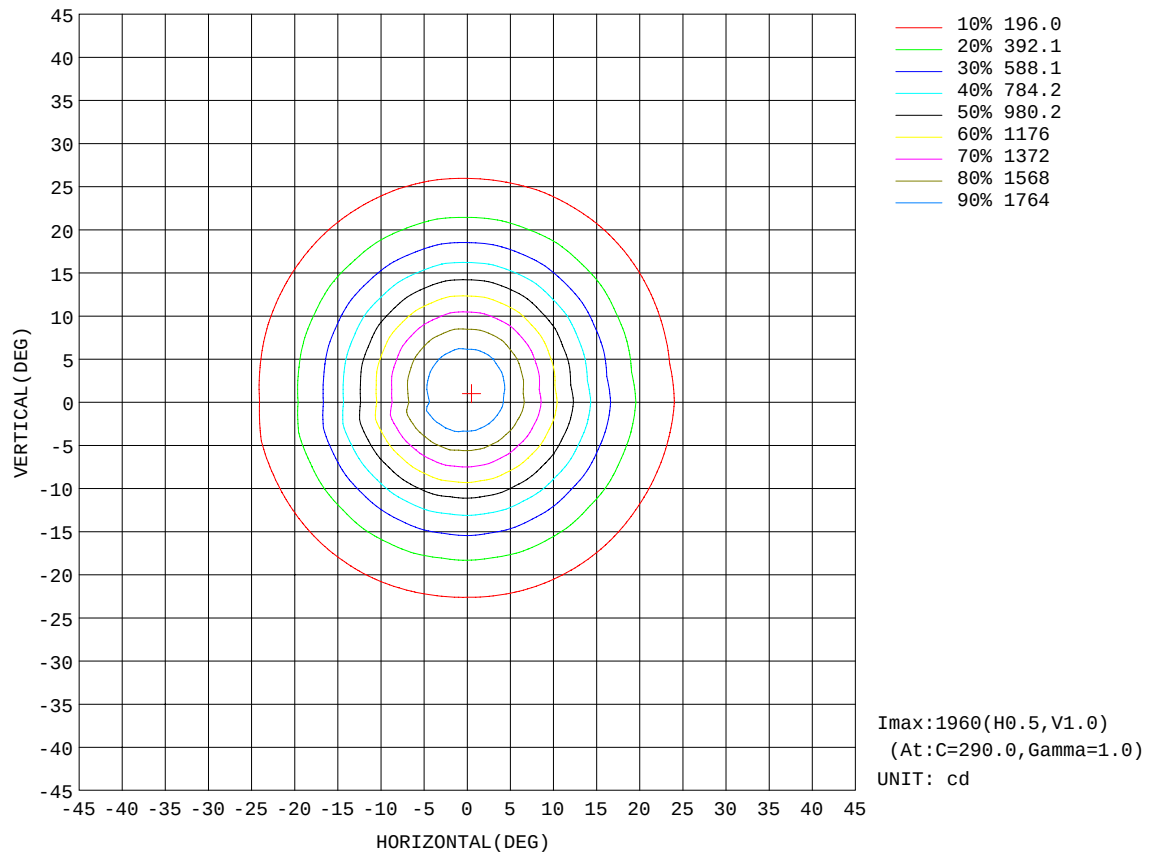
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	82	90	85	82	90	85	81	78
0.80	98	93	89	97	92	89	96	92	89	85
1.00	102	97	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	108	103	100	106	103	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	109	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: 0
Test Date: 2022-04-25

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: Spot35-3000k-RA90-5w-40D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

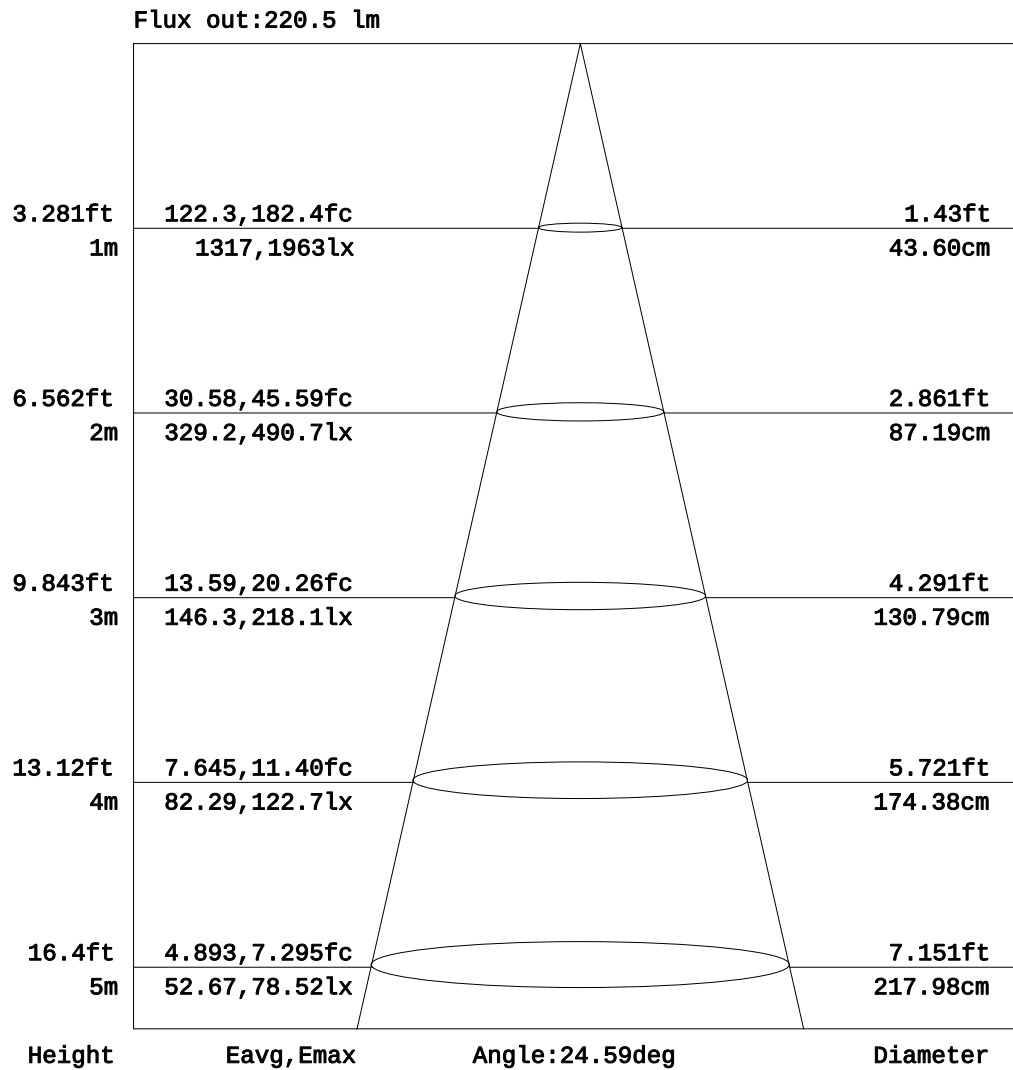


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-04-25

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: Spot35-3000k-RA90-5w-40D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:



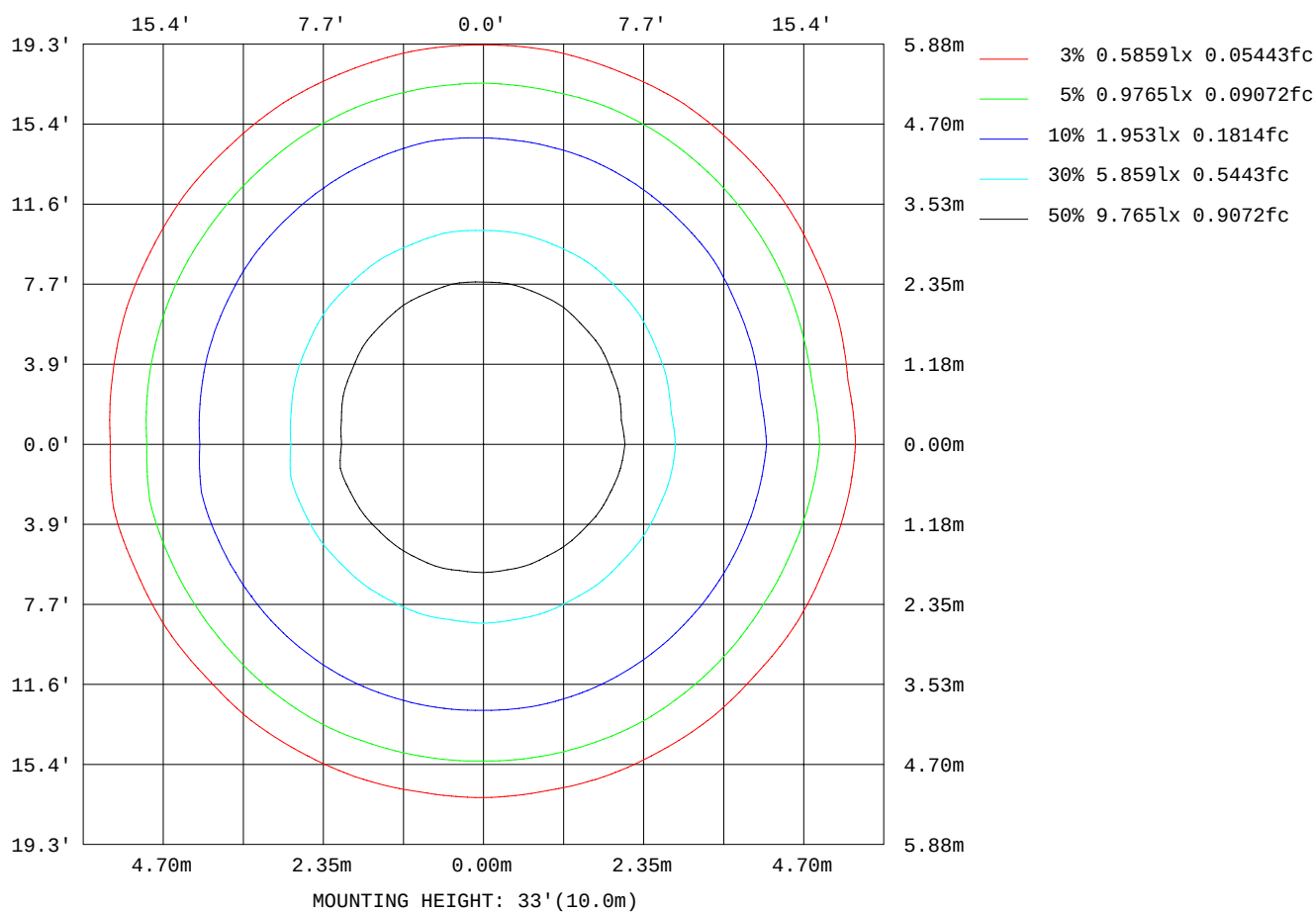
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-04-25

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: Spot35-3000k-RA90-5w-40D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-04-25

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: Spot35-3000k-RA90-5w-40D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Bc	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	1	
Output of each lamp(initial lumens as specified)	F	461.698	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	14	12	13	12	12	11	12	11	12	11	12	12	13	12	14	13	15	14	13
60	8	7	8	7	8	6	7	6	7	6	7	7	8	7	9	8	10	9	8
65	4	3	4	3	3	2	3	2	3	2	3	2	4	3	4	3	5	4	4
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	15	200	---	500
Category 2	65 to 90	5	200	---	500
Category 3	75 to 90	0	200	---	500

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

No match

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-04-25

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: Spot35-3000k-RA90-5w-40D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Bc	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	1	
Output of each lamp(initial lumens as specified)	F	461.698	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	14	12	13	12	12	11	12	11	12	11	12	12	13	12	14	13	15	14	13
60	8	7	8	7	8	6	7	6	7	6	7	7	8	7	9	8	10	9	8
65	4	3	4	3	3	2	3	2	3	2	3	2	4	3	4	3	5	4	4
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	15	1000	1500	200	500
65 to 90	5	1000	1500	200	500

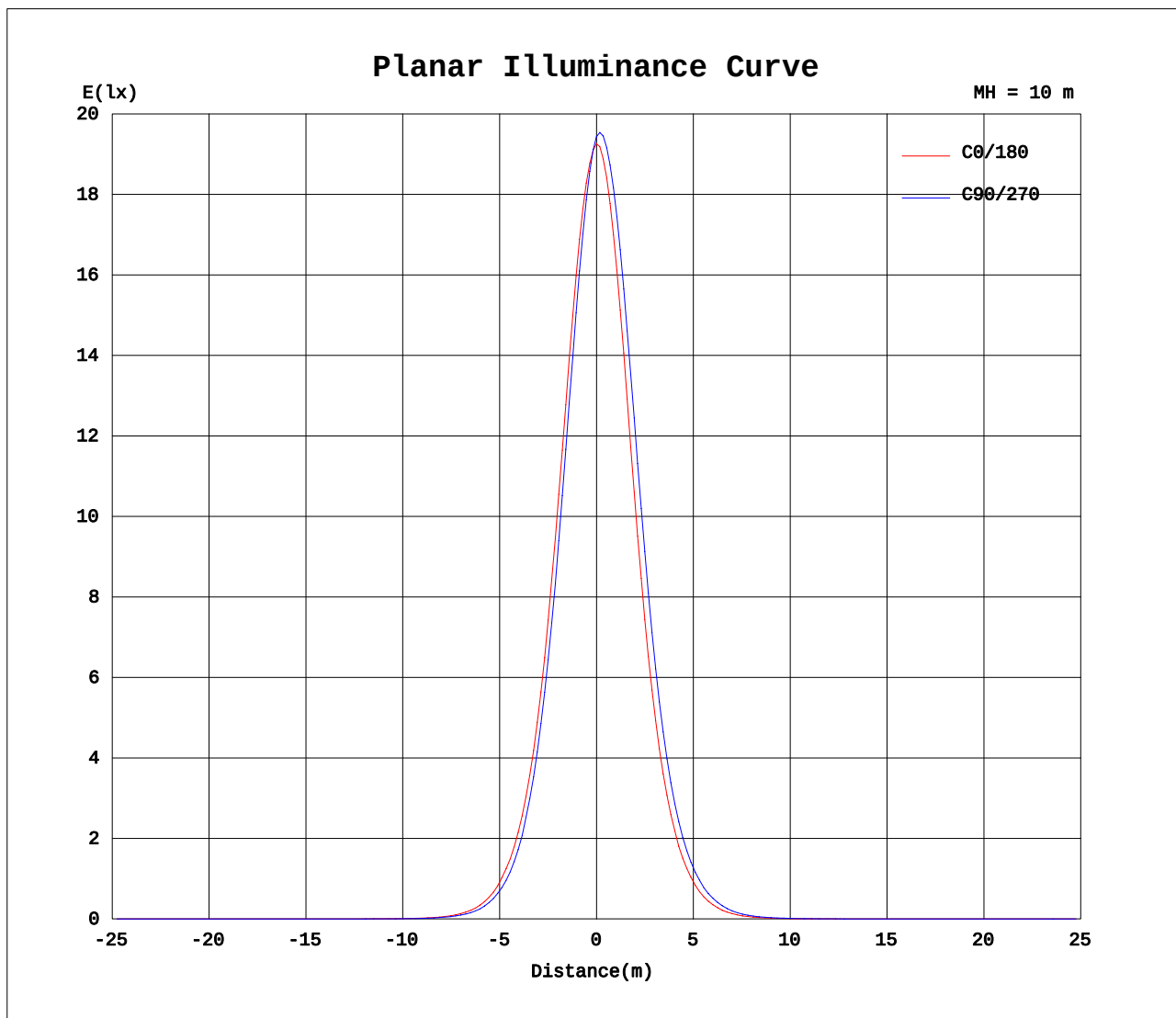
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

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

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-04-25

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

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-04-25

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: Spot35-3000k-RA90-5w-40D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(°)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	1926	1931	1933	1937	1939	1943	1943	1946	1949	1943	1944	1955	1953	1950	1950	1950	1949	1947	1926
5	1708	1697	1674	1666	1647	1643	1630	1633	1627	1629	1630	1653	1658	1675	1687	1713	1729	1757	1719
10	1219	1203	1171	1157	1129	1121	1104	1105	1094	1102	1102	1126	1133	1155	1170	1203	1227	1268	1229
15	720	703	676	664	641	638	624	626	618	625	621	638	644	663	674	701	718	749	724
20	366	351	334	327	314	314	307	308	301	305	303	314	320	332	337	352	362	383	370
25	168	157	147	139	138	135	135	132	131	129	132	135	142	145	150	155	163	173	168
30	67.3	63.5	59.0	56.6	53.9	53.1	51.4	51.2	49.9	50.3	50.5	53.5	54.8	57.9	58.8	62.2	64.9	70.3	68.3
35	24.7	23.0	21.2	20.2	19.4	18.6	18.0	18.1	17.4	18.0	18.3	19.1	19.2	20.4	21.1	22.4	23.2	25.3	24.7
40	8.79	8.17	7.36	7.35	6.80	6.64	6.53	6.60	6.36	6.38	6.59	6.78	7.13	7.45	7.50	8.07	8.26	9.02	8.57
45	3.28	3.07	2.84	2.71	2.62	2.51	2.48	2.47	2.49	2.54	2.56	2.66	2.74	2.87	2.92	3.07	3.23	3.34	3.36
50	1.52	1.41	1.36	1.26	1.25	1.19	1.21	1.17	1.21	1.20	1.26	1.27	1.33	1.37	1.46	1.48	1.56	1.57	1.53
55	0.77	0.69	0.73	0.67	0.70	0.64	0.68	0.64	0.69	0.65	0.71	0.69	0.74	0.72	0.79	0.77	0.84	0.80	0.77
60	0.42	0.35	0.39	0.34	0.38	0.32	0.35	0.30	0.35	0.32	0.37	0.33	0.39	0.37	0.43	0.41	0.48	0.43	0.41
65	0.18	0.12	0.16	0.11	0.15	0.08	0.13	0.08	0.13	0.08	0.14	0.10	0.15	0.12	0.18	0.15	0.20	0.17	0.16
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	0.01	0.00	0.02	0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.08	0.13	0.10	0.15	0.12	0.18	0.14	0.19	0.15	0.20	0.14	0.19	0.14	0.16	0.10	0.14	0.08	0.10	0.13
145	0.32	0.38	0.36	0.43	0.41	0.46	0.43	0.49	0.45	0.49	0.44	0.48	0.41	0.44	0.38	0.39	0.33	0.35	0.36
150	0.73	0.79	0.78	0.85	0.84	0.89	0.88	0.93	0.90	0.93	0.88	0.92	0.85	0.87	0.79	0.80	0.74	0.73	0.73
155	1.25	1.32	1.32	1.38	1.38	1.44	1.42	1.47	1.44	1.47	1.43	1.45	1.39	1.40	1.33	1.34	1.25	1.24	1.22
160	1.80	1.87	1.87	1.94	1.92	1.98	1.97	2.01	1.99	2.02	1.97	2.00	1.92	1.95	1.89	1.89	1.81	1.81	1.76
165	2.27	2.34	2.31	2.38	2.36	2.42	2.38	2.44	2.40	2.43	2.39	2.43	2.35	2.39	2.32	2.35	2.28	2.29	2.22
170	2.55	2.61	2.58	2.63	2.59	2.64	2.60	2.65	2.62	2.65	2.62	2.67	2.60	2.65	2.59	2.62	2.56	2.61	2.53
175	2.69	2.74	2.70	2.75	2.69	2.74	2.71	2.75	2.72	2.75	2.71	2.76	2.70	2.76	2.72	2.75	2.72	2.77	2.70
180	2.77	2.77	2.76	2.77	2.75	2.75	2.75	2.75	2.76	2.76	2.75	2.76	2.75	2.76	2.77	2.77	2.78	2.80	2.77

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-04-25

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: Spot35-3000k-RA90-5w-40D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(°)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
γ (°)	1931	1933	1937	1939	1943	1943	1946	1949	1943	1944	1955	1953	1950	1950	1950	1949	1947		
0	1931	1933	1937	1939	1943	1943	1946	1949	1943	1944	1955	1953	1950	1950	1950	1949	1947		
5	1738	1767	1782	1805	1817	1833	1837	1847	1837	1837	1832	1822	1798	1784	1759	1740	1709		
10	1253	1296	1321	1361	1378	1403	1410	1429	1418	1419	1399	1386	1351	1327	1284	1255	1209		
15	745	777	799	836	850	880	890	907	899	898	880	866	829	808	766	742	706		
20	384	403	415	437	446	466	472	485	480	479	465	458	434	419	393	379	356		
25	177	186	193	201	210	217	225	229	228	225	222	213	205	195	183	172	163		
30	71.8	77.1	80.1	85.5	88.5	93.3	95.1	97.7	97.6	97.4	94.1	92.5	86.8	83.0	76.4	71.7	65.2		
35	26.0	28.0	29.2	31.8	32.2	34.5	35.2	36.6	37.1	37.0	35.1	34.7	32.5	30.8	28.1	25.9	23.7		
40	9.05	9.91	10.3	10.9	11.4	12.2	12.5	13.1	12.9	12.9	12.6	12.2	11.4	11.0	10.0	9.45	8.35		
45	3.52	3.77	3.99	4.21	4.34	4.61	4.70	4.85	4.94	4.92	4.66	4.58	4.28	4.08	3.82	3.52	3.20		
50	1.62	1.69	1.81	1.84	1.91	1.93	1.99	2.04	2.09	2.06	1.99	1.90	1.84	1.77	1.73	1.62	1.50		
55	0.82	0.81	0.88	0.86	0.90	0.86	0.92	0.93	0.98	0.93	0.95	0.88	0.88	0.83	0.84	0.77	0.77		
60	0.47	0.45	0.50	0.48	0.52	0.48	0.54	0.51	0.55	0.50	0.54	0.48	0.49	0.43	0.47	0.40	0.42		
65	0.21	0.17	0.24	0.20	0.25	0.20	0.25	0.21	0.26	0.20	0.24	0.17	0.22	0.16	0.21	0.15	0.18		
70	0.01	0.00	0.05	0.01	0.07	0.02	0.07	0.03	0.09	0.03	0.07	0.01	0.04	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		
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	0.08	0.11	0.05	0.09	0.05	0.08	0.03	0.08	0.04	0.09	0.05	0.09	0.05	0.10	0.07	0.12	0.09		
145	0.30	0.33	0.28	0.30	0.25	0.28	0.24	0.28	0.24	0.29	0.25	0.30	0.27	0.32	0.30	0.35	0.33		
150	0.67	0.68	0.63	0.64	0.59	0.62	0.57	0.61	0.57	0.61	0.59	0.63	0.62	0.67	0.66	0.72	0.72		
155	1.16	1.17	1.10	1.12	1.07	1.08	1.04	1.08	1.04	1.08	1.06	1.11	1.09	1.15	1.15	1.22	1.21		
160	1.68	1.69	1.63	1.64	1.59	1.62	1.57	1.61	1.57	1.61	1.59	1.64	1.62	1.69	1.68	1.75	1.75		
165	2.15	2.17	2.10	2.13	2.08	2.11	2.06	2.10	2.05	2.10	2.07	2.12	2.09	2.16	2.15	2.22	2.20		
170	2.47	2.49	2.43	2.47	2.41	2.46	2.40	2.45	2.40	2.45	2.42	2.47	2.43	2.50	2.47	2.53	2.51		
175	2.67	2.68	2.62	2.67	2.61	2.66	2.62	2.67	2.61	2.67	2.63	2.69	2.64	2.69	2.66	2.72	2.68		
180	2.77	2.77	2.75	2.75	2.75	2.75	2.75	2.75	2.76	2.76	2.76	2.76	2.76	2.77	2.77	2.79	2.80		

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