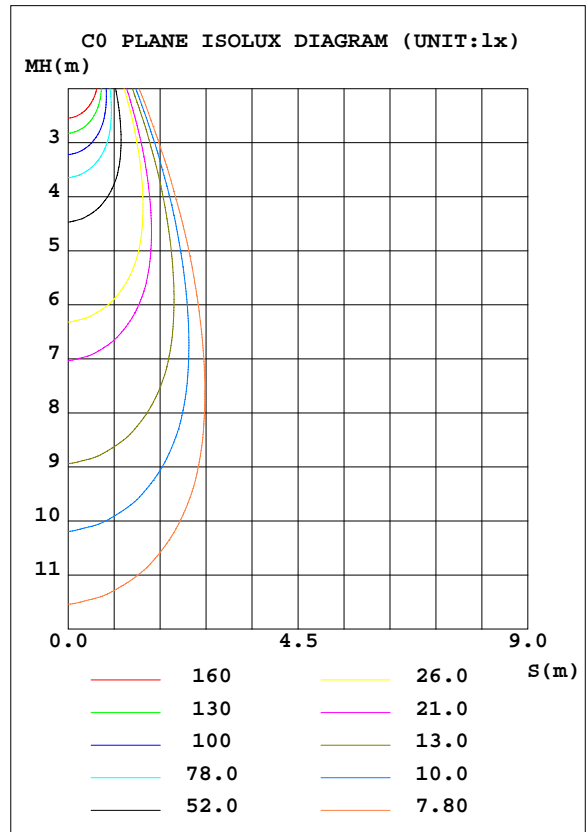
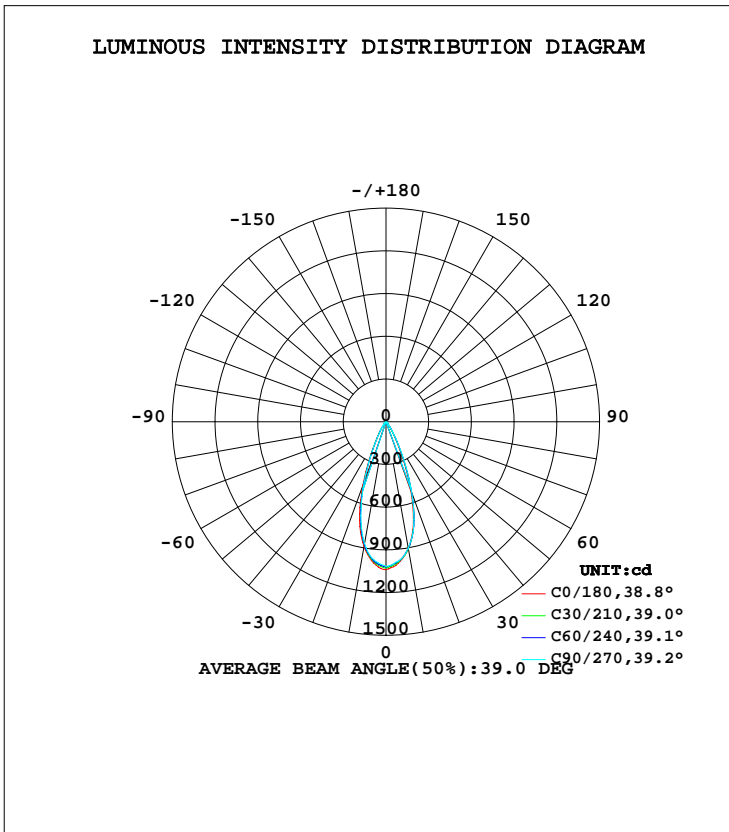


## LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: Spot35-s-3000K-RA90-5W-60D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0 Avenue Lighting	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	ML4001-BLK	Imax(cd)	1038	S/MH(C0/180)	0.62
NOMINAL POWER(W)	5	LOR(%)	100.0	S/MH(C90/270)	0.64
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	466.80	η UP, DN(C0-180)	0.2, 52.2
NOMINAL FLUX(lm)	466.802	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 47.4
LAMPS INSIDE	1	η up(%)	0.3	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	24	η down(%)	99.7	CIBSE SHR MAX	0.60



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: 0  
 Test Date: 2022-04-26

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:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum,lamp
10	902.9	904.5	901.0	882.8	889.9	877.7	868.2	862.5	0- 10	90.55	90.55	19.4,19.4
20	506.5	528.8	529.9	508.2	473.6	450.7	444.6	450.9	10- 20	194.0	284.5	60.9,60.9
30	122.6	136.7	141.7	127.8	110.9	106.6	103.3	103.0	20- 30	122.0	406.5	87.1,87.1
40	25.65	28.79	31.44	27.29	24.54	25.33	25.45	22.67	30- 40	36.77	443.3	95,95
50	9.860	8.860	9.136	9.086	9.979	10.66	10.70	10.44	40- 50	11.67	455.0	97.5,97.5
60	5.204	5.357	5.362	5.276	5.328	5.317	5.667	4.987	50- 60	6.819	461.8	98.9,98.9
70	1.182	1.210	1.156	1.115	0.9520	0.8266	0.7552	0.8296	60- 70	3.315	465.1	99.6,99.6
80	0	0	0	0	0	0	0	0	70- 80	0.0908	465.2	99.7,99.7
90	0	0	0	0	0	0	0	0	80- 90	0	465.2	99.7,99.7
100	0	0	0	0	0	0	0	0	90-100	0	465.2	99.7,99.7
110	0	0	0	0	0	0	0	0	100-110	0	465.2	99.7,99.7
120	0	0	0	0	0	0	0	0	110-120	0	465.2	99.7,99.7
130	0	0	0	0	0.0001	0.0001	0	0.0001	120-130	0.0000	465.2	99.7,99.7
140	0.1883	0.1982	0.2128	0.1911	0.2695	0.2596	0.2403	0.2455	130-140	0.0561	465.3	99.7,99.7
150	0.7638	0.7597	0.7698	0.7503	0.8361	0.8355	0.8112	0.8047	140-150	0.2968	465.6	99.7,99.7
160	1.500	1.472	1.482	1.456	1.549	1.517	1.496	1.484	150-160	0.5168	466.1	99.8,99.8
170	2.128	2.086	2.086	2.048	2.181	2.112	2.090	2.072	160-170	0.5014	466.6	100,100
180	2.487	2.430	2.407	2.390	2.501	2.433	2.407	2.393	170-180	0.2142	466.8	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

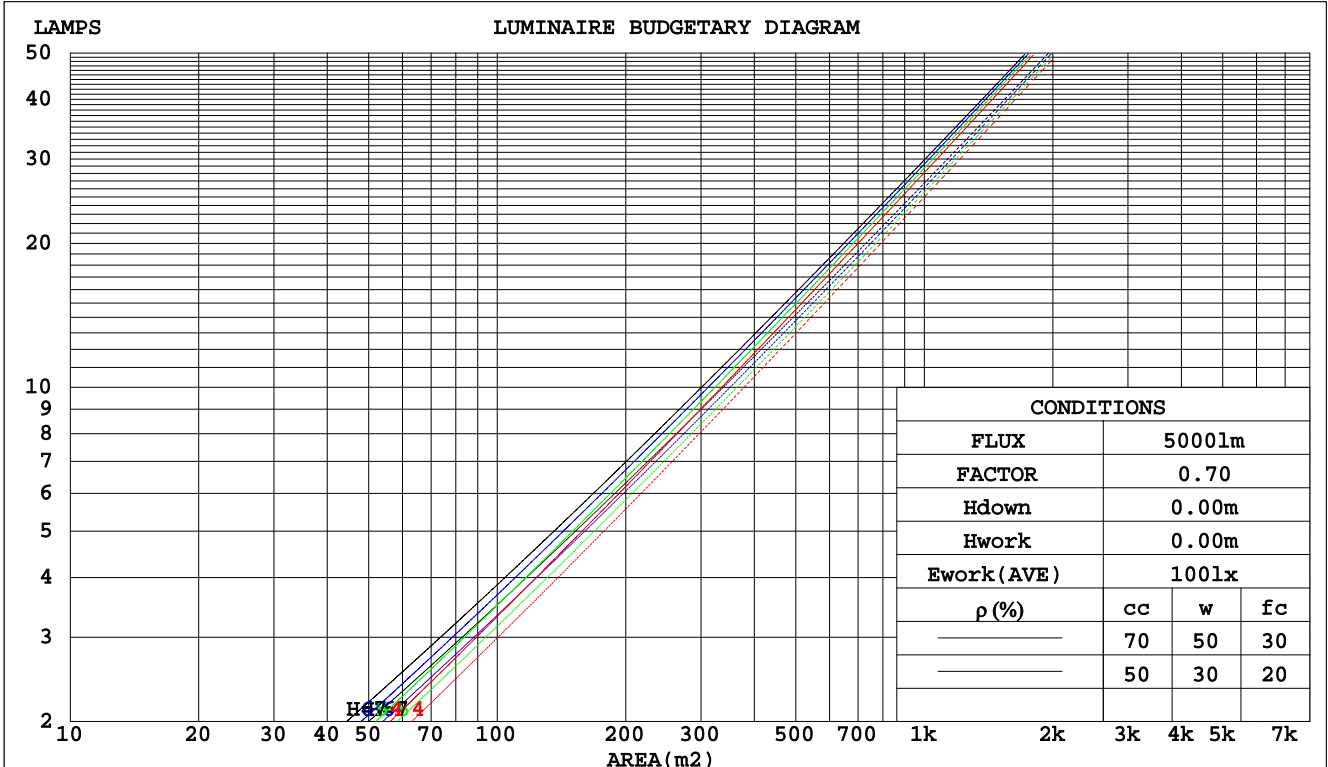
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:0  
Test Date:2022-04-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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: Spot35-s-3000K-RA90-5W-60D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	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																0
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	1.12	1.09	1.08	1.10	1.08	1.06	1.05	1.04	1.02	1.02	1.00	.99	.98	.97	.96	.95
2.0	1.05	1.02	.99	1.03	1.00	.98	1.00	.98	.95	.97	.95	.93	.95	.93	.91	.90
3.0	.99	.95	.92	.98	.94	.91	.95	.92	.89	.93	.90	.88	.91	.89	.87	.85
4.0	.94	.89	.86	.93	.89	.85	.91	.87	.84	.89	.86	.83	.87	.85	.82	.81
5.0	.90	.85	.81	.89	.84	.81	.87	.83	.80	.85	.82	.79	.84	.81	.78	.77
6.0	.85	.80	.77	.85	.80	.76	.83	.79	.76	.82	.78	.75	.81	.77	.75	.74
7.0	.82	.76	.73	.81	.76	.73	.80	.75	.72	.79	.75	.72	.77	.74	.71	.70
8.0	.78	.73	.69	.77	.73	.69	.76	.72	.69	.75	.72	.69	.75	.71	.68	.67
9.0	.75	.70	.66	.74	.70	.66	.73	.69	.66	.73	.69	.66	.72	.68	.66	.64
10.0	.72	.67	.64	.71	.67	.64	.71	.66	.63	.70	.66	.63	.69	.66	.63	.62



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: 0  
 Test Date: 2022-04-26

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: Spot35-s-3000K-RA90-5W-60D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	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	.158	.090	.029	.151	.086	.027	.139	.080	.025	.127	.073	.024	.116	.067	.022	
2.0	.149	.082	.025	.144	.079	.024	.133	.074	.023	.123	.069	.022	.114	.065	.020	
3.0	.141	.075	.022	.136	.073	.022	.127	.069	.021	.119	.065	.020	.111	.062	.019	
4.0	.133	.069	.020	.129	.068	.020	.122	.065	.019	.115	.062	.019	.108	.059	.018	
5.0	.127	.065	.019	.123	.063	.018	.116	.061	.018	.110	.058	.017	.105	.056	.017	
6.0	.120	.060	.017	.117	.059	.017	.112	.057	.017	.106	.055	.016	.101	.053	.016	
7.0	.115	.057	.016	.112	.056	.016	.107	.054	.016	.102	.052	.015	.098	.051	.015	
8.0	.110	.054	.015	.107	.053	.015	.103	.051	.015	.099	.050	.014	.095	.049	.014	
9.0	.105	.051	.014	.103	.050	.014	.099	.049	.014	.095	.048	.014	.092	.046	.013	
10.0	.101	.048	.013	.099	.048	.013	.095	.047	.013	.092	.046	.013	.089	.045	.013	

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	.172	.160	.149	.148	.137	.128	.101	.095	.089	.058	.055	.052	.019	.018	.017	
2.0	.156	.135	.118	.134	.116	.102	.092	.081	.071	.053	.047	.042	.017	.015	.014	
3.0	.142	.116	.095	.122	.100	.083	.084	.070	.058	.048	.041	.034	.016	.013	.011	
4.0	.131	.101	.078	.112	.087	.068	.077	.061	.048	.045	.036	.028	.014	.012	.009	
5.0	.121	.089	.065	.104	.077	.057	.072	.054	.040	.042	.032	.024	.013	.010	.008	
6.0	.113	.080	.055	.097	.069	.048	.067	.048	.034	.039	.028	.020	.013	.009	.007	
7.0	.106	.072	.047	.091	.062	.041	.063	.044	.029	.037	.026	.017	.012	.008	.006	
8.0	.100	.065	.041	.086	.057	.036	.060	.040	.025	.035	.023	.015	.011	.008	.005	
9.0	.095	.060	.036	.082	.052	.031	.057	.036	.022	.033	.022	.013	.011	.007	.004	
10.0	.090	.055	.032	.078	.048	.028	.054	.034	.020	.031	.020	.012	.010	.007	.004	

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: 0  
 Test Date: 2022-04-26

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: Spot35-s-3000K-RA90-5W-60D					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	0.4	1.2	0.6	1.4	1.5	1.0	1.8	1.2	1.9	2.1				
3H	0.5	1.2	0.8	1.4	1.6	1.0	1.7	1.2	1.9	2.1				
4H	0.4	1.1	0.7	1.3	1.6	0.9	1.6	1.2	1.8	2.0				
6H	0.3	1.0	0.6	1.2	1.5	0.8	1.5	1.1	1.7	2.0				
8H	0.3	0.9	0.6	1.2	1.4	0.8	1.4	1.1	1.7	1.9				
12H	0.2	0.9	0.6	1.1	1.4	0.7	1.3	1.0	1.6	1.9				
4H 2H	0.4	1.1	0.7	1.3	1.6	0.9	1.6	1.2	1.8	2.1				
3H	0.5	1.1	0.8	1.4	1.7	1.0	1.6	1.3	1.8	2.1				
4H	0.4	1.0	0.8	1.3	1.6	0.9	1.4	1.2	1.7	2.0				
6H	0.3	0.8	0.7	1.1	1.5	0.8	1.2	1.1	1.6	1.9				
8H	0.3	0.7	0.7	1.1	1.5	0.7	1.2	1.1	1.5	1.9				
12H	0.2	0.6	0.6	1.0	1.4	0.7	1.1	1.1	1.4	1.8				
8H 4H	0.3	0.7	0.7	1.1	1.5	0.7	1.2	1.1	1.5	1.9				
6H	0.2	0.5	0.6	0.9	1.4	0.6	1.0	1.0	1.4	1.8				
8H	0.1	0.4	0.6	0.9	1.3	0.5	0.9	1.0	1.3	1.7				
12H	0.1	0.3	0.5	0.8	1.3	0.5	0.8	1.0	1.2	1.7				
12H 4H	0.2	0.6	0.6	1.0	1.4	0.7	1.1	1.1	1.5	1.8				
6H	0.1	0.4	0.6	0.9	1.3	0.5	0.9	1.0	1.3	1.7				
8H	0.1	0.3	0.5	0.8	1.3	0.5	0.8	1.0	1.2	1.7				
Variations with the observer position at spacings:														
S = 1.0H	+ 1.8 / - 2.5					+ 2.4 / - 3.2								
1.5H	+ 3.4 / - 2.1					+ 4.2 / - 2.8								
2.0H	+ 1.4 / - 1.2					+ 2.6 / - 2.1								

CIE Pub.117 Corrected 466.8 lm Total Lamp Luminous Flux. (8log(F/F0) = -2.6)

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: 0  
Test Date: 2022-04-26

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: Spot35-s-3000K-RA90-5W-60D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

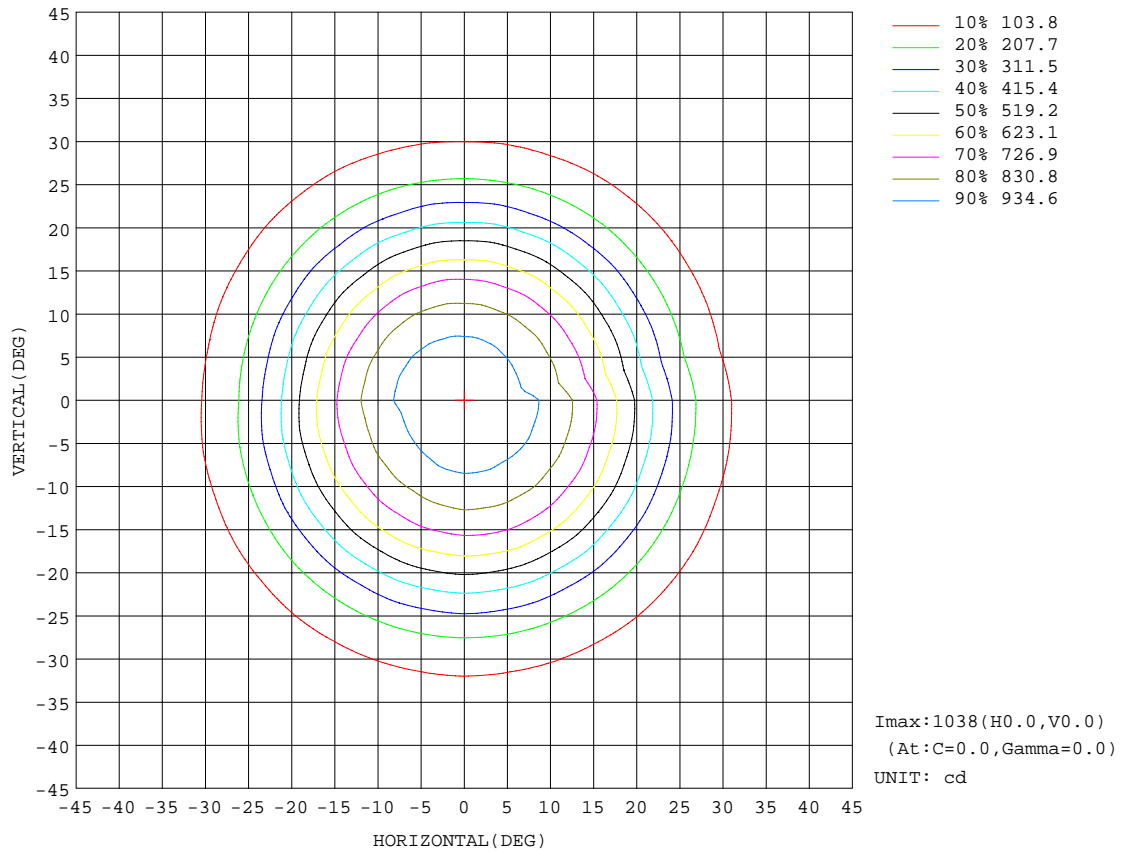
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	88	82	79	88	82	78	87	82	78	75
0.80	96	90	86	95	90	86	94	89	86	82
1.00	100	94	91	99	94	91	97	94	90	86
1.25	104	99	95	103	98	95	101	97	94	90
1.50	106	102	99	105	101	98	103	100	97	93
2.00	109	105	102	107	104	101	105	102	99	94
2.50	110	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	96
4.00	114	111	109	112	110	108	108	106	105	98
5.00	115	113	111	113	111	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: 0  
 Test Date: 2022-04-26

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: Spot35-s-3000K-RA90-5W-60D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

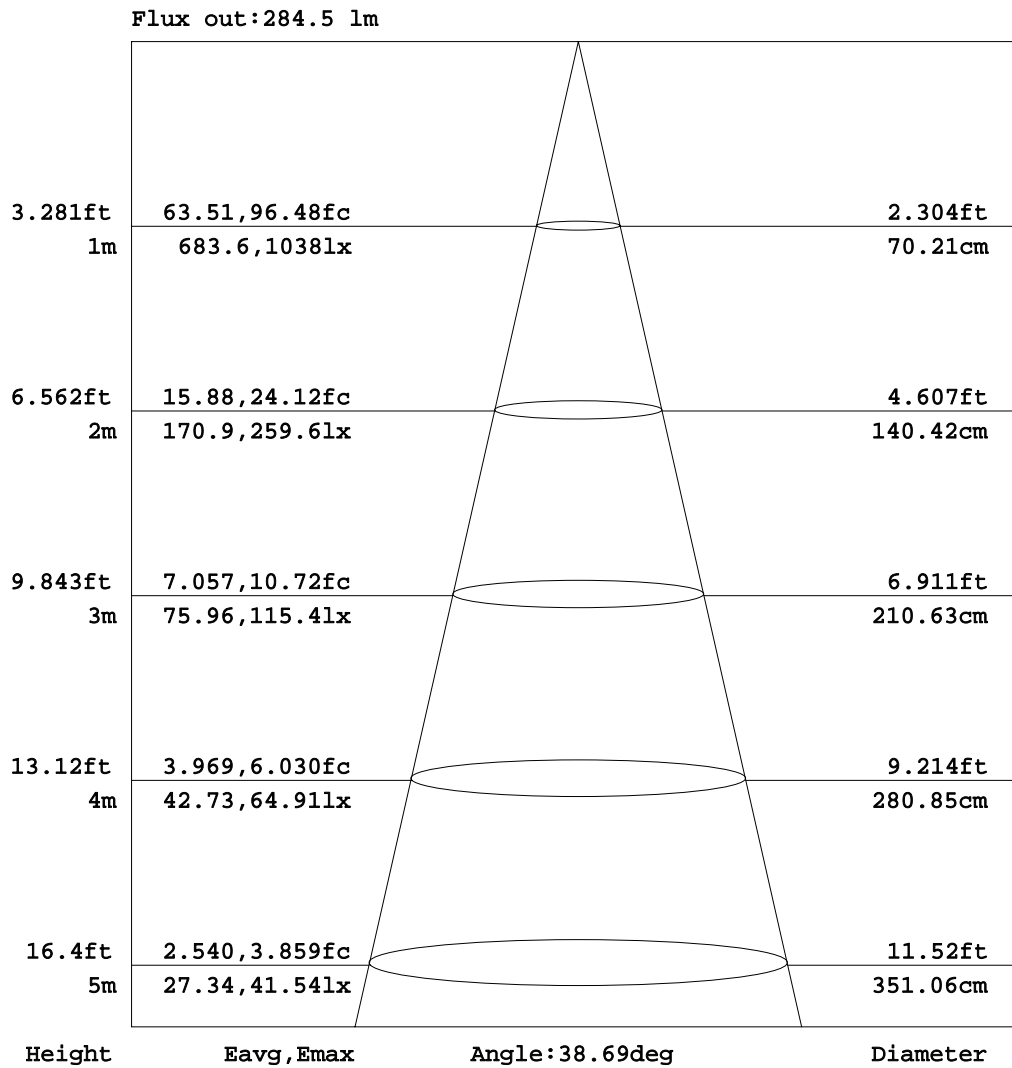


C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: 0  
 Test Date: 2022-04-26

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: Spot35-s-3000K-RA90-5W-60D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:



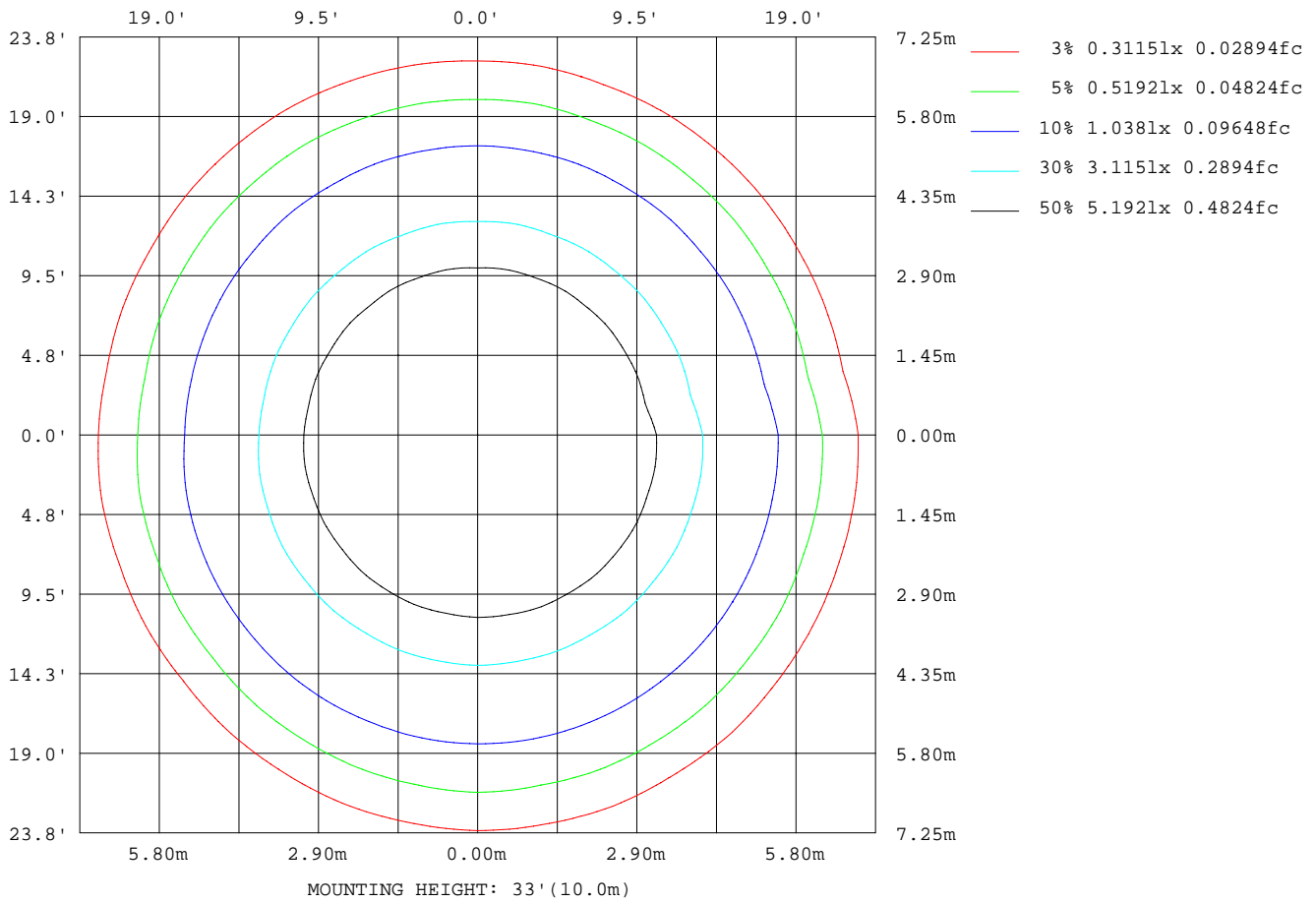
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: 0  
Test Date: 2022-04-26

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: Spot35-s-3000K-RA90-5W-60D	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: 2022-04-26

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: Spot35-s-3000K-RA90-5W-60D	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	466.802	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	129	134	133	132	130	125	127	129	129	128	127	122	128	127	127	131	133	134	136
60	104	106	111	110	111	103	97	104	109	107	108	101	96	102	109	114	115	114	107
65	86	83	86	84	83	78	77	76	80	80	79	74	75	76	83	85	86	88	86
70	35	40	32	38	32	39	35	36	32	34	30	31	32	34	31	30	28	32	28
75	1	0	1	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	specified	maximum	specified
		calculated	maximum	measured	maximum
Category 1	55 to 90	136	200	---	500
Category 2	65 to 90	88	200	---	500
Category 3	75 to 90	1	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:2022-04-26

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: Spot35-s-3000K-RA90-5W-60D	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	466.802	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	129	134	133	132	130	125	127	129	129	128	127	122	128	127	127	131	133	134	136
60	104	106	111	110	111	103	97	104	109	107	108	101	96	102	109	114	115	114	107
65	86	83	86	84	83	78	77	76	80	80	79	74	75	76	83	85	86	88	86
70	35	40	32	38	32	39	35	36	32	34	30	31	32	34	31	30	28	32	28
75	1	0	1	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	136	1000	1500	200	500
65 to 90	88	1000	1500	200	500

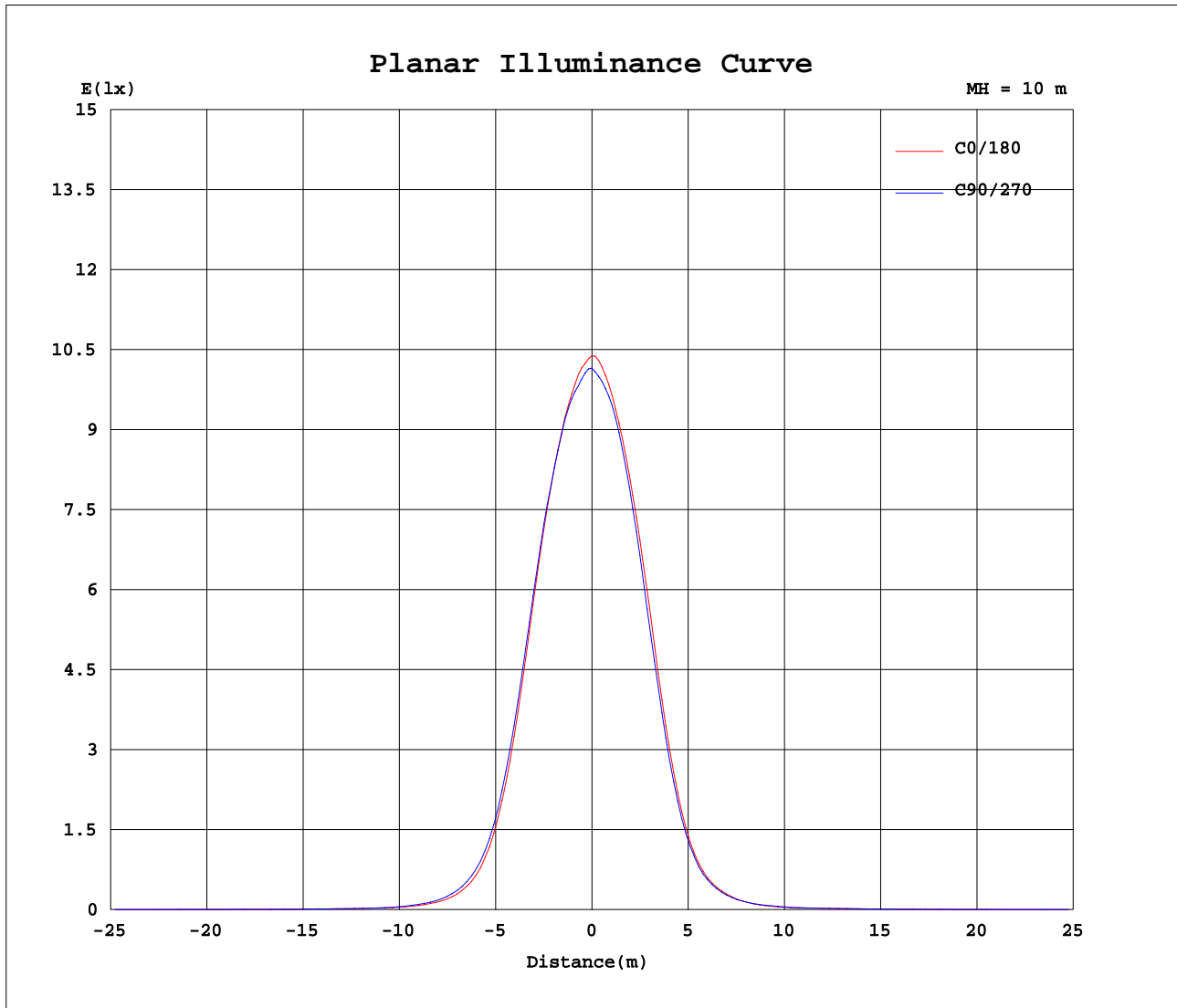
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

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:2022-04-26

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: 0  
 Test Date: 2022-04-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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: Spot35-s-3000K-RA90-5W-60D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	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	1038	1034	1030	1027	1024	1022	1020	1018	1017	1015	1014	1013	1013	1011	1011	1010	1010	1009	1038
5	997	994	991	991	988	988	986	986	985	983	980	979	976	975	974	975	975	976	996
10	903	905	903	907	905	904	904	906	902	901	898	894	887	885	881	881	875	878	890
15	744	749	748	754	753	759	758	760	756	755	746	744	735	734	726	725	717	719	717
20	507	514	515	525	526	532	528	530	527	530	523	523	515	513	503	500	490	487	474
25	276	283	284	291	293	299	297	301	300	302	296	296	288	287	279	276	265	259	247
30	123	126	126	131	136	138	140	141	143	142	141	137	135	131	124	123	118	118	111
35	53.5	54.8	55.9	57.8	59.6	62.3	62.7	64.9	65.3	65.7	64.1	62.7	60.4	58.6	56.1	55.7	54.1	54.6	53.1
40	25.7	25.6	26.0	28.2	28.3	29.3	29.6	30.3	31.0	31.4	30.7	30.1	28.1	27.9	26.7	26.5	26.3	25.8	24.5
45	13.4	13.4	13.5	13.9	14.5	14.3	14.5	14.9	15.8	16.0	15.4	14.1	13.3	13.2	13.7	14.1	13.8	13.0	12.7
50	9.86	9.59	8.62	8.75	8.75	8.97	10.1	9.56	9.19	9.14	9.16	8.89	9.52	9.02	9.15	9.12	9.19	9.18	9.98
55	7.38	7.66	7.60	7.57	7.44	7.15	7.30	7.39	7.38	7.32	7.28	7.00	7.34	7.31	7.26	7.50	7.61	7.67	7.83
60	5.20	5.31	5.54	5.48	5.55	5.17	4.86	5.21	5.45	5.36	5.40	5.03	4.80	5.10	5.45	5.68	5.76	5.72	5.33
65	3.65	3.50	3.62	3.57	3.50	3.32	3.24	3.23	3.36	3.39	3.34	3.14	3.16	3.21	3.52	3.59	3.64	3.73	3.62
70	1.18	1.37	1.09	1.30	1.09	1.33	1.21	1.22	1.08	1.16	1.03	1.05	1.08	1.17	1.05	1.03	0.97	1.10	0.95
75	0.02	0.00	0.02	0.00	0.01	0.00	0.00	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	0.02	0.07	0.02	0.06	0.00	0.06	0.01	0.06	0.01	0.06	0.01	0.05	0.00	0.05	0.01	0.06	0.01	0.06	0.09
140	0.19	0.23	0.18	0.22	0.17	0.22	0.17	0.21	0.17	0.21	0.16	0.21	0.17	0.21	0.17	0.21	0.18	0.22	0.27
145	0.44	0.47	0.43	0.47	0.43	0.46	0.41	0.46	0.42	0.46	0.41	0.46	0.41	0.45	0.41	0.46	0.42	0.47	0.51
150	0.76	0.80	0.75	0.78	0.74	0.78	0.74	0.76	0.73	0.77	0.73	0.77	0.72	0.77	0.73	0.78	0.73	0.78	0.84
155	1.13	1.16	1.11	1.15	1.09	1.13	1.08	1.13	1.08	1.12	1.08	1.12	1.08	1.11	1.08	1.12	1.09	1.13	1.19
160	1.50	1.53	1.47	1.51	1.45	1.49	1.44	1.48	1.43	1.48	1.43	1.47	1.43	1.48	1.43	1.48	1.44	1.49	1.55
165	1.83	1.87	1.81	1.84	1.79	1.82	1.77	1.81	1.76	1.81	1.76	1.80	1.75	1.79	1.75	1.80	1.76	1.80	1.88
170	2.13	2.16	2.09	2.13	2.07	2.10	2.05	2.09	2.04	2.09	2.04	2.08	2.03	2.07	2.02	2.08	2.04	2.09	2.18
175	2.36	2.41	2.33	2.37	2.30	2.34	2.28	2.33	2.28	2.33	2.27	2.31	2.26	2.31	2.26	2.32	2.28	2.33	2.43
180	2.49	2.49	2.45	2.46	2.43	2.43	2.42	2.42	2.41	2.41	2.40	2.40	2.39	2.39	2.39	2.39	2.41	2.41	2.50

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: 0  
Test Date: 2022-04-26

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: Spot35-s-3000K-RA90-5W-60D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	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	1034	1030	1027	1024	1022	1020	1018	1017	1015	1014	1013	1013	1011	1011	1010	1010	1009		
5	991	989	987	986	982	982	979	977	974	975	971	969	966	966	964	965	964		
10	884	884	880	879	877	878	872	872	868	868	865	865	862	863	861	863	861		
15	707	705	695	694	690	691	686	689	683	684	680	687	685	689	688	694	695		
20	463	462	455	455	447	451	443	448	445	449	444	450	447	455	454	463	460		
25	244	239	237	234	232	232	232	230	230	230	230	230	231	232	235	238	241		
30	108	108	106	107	106	107	105	105	103	104	102	103	103	103	103	105	106		
35	51.1	51.6	50.8	51.6	51.3	51.9	50.8	50.6	49.6	49.4	48.5	48.4	47.7	47.5	46.5	47.0	46.5		
40	24.4	25.0	25.7	25.8	24.9	25.1	24.6	25.4	25.5	25.1	23.6	22.9	22.5	22.9	23.2	23.3	22.5		
45	13.2	13.9	14.3	14.6	13.8	14.0	14.1	14.7	14.9	14.4	13.7	12.8	12.6	13.4	13.2	12.9	12.5		
50	9.77	9.43	9.81	10.4	10.9	11.5	11.1	10.5	10.7	10.7	10.5	11.2	10.8	10.1	10.1	9.33	8.88		
55	7.66	8.00	8.07	8.12	8.26	8.05	8.17	8.55	8.47	8.54	8.19	7.71	7.67	8.24	8.34	7.99	7.60		
60	5.36	5.56	5.31	5.49	5.14	4.95	5.24	5.54	5.67	5.69	5.26	4.57	4.63	5.35	5.36	5.48	5.19		
65	3.50	3.46	3.32	3.35	3.25	3.42	3.18	3.19	3.31	3.21	3.08	3.05	2.99	3.22	3.13	3.29	3.26		
70	0.85	0.69	0.68	0.74	0.92	1.10	1.01	0.80	0.76	0.74	0.80	0.88	0.93	0.73	0.68	0.66	0.77		
75	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.00	0.02	0.00	0.03	0.00	0.03	0.00	0.02	0.00	0.02		
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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
135	0.05	0.09	0.05	0.10	0.06	0.11	0.06	0.11	0.07	0.10	0.06	0.09	0.05	0.09	0.04	0.09	0.04		
140	0.22	0.27	0.23	0.28	0.24	0.28	0.24	0.29	0.24	0.28	0.24	0.26	0.23	0.26	0.22	0.26	0.20		
145	0.49	0.52	0.49	0.54	0.50	0.54	0.50	0.55	0.50	0.53	0.48	0.53	0.47	0.51	0.47	0.49	0.45		
150	0.80	0.84	0.81	0.85	0.82	0.86	0.81	0.86	0.81	0.84	0.80	0.84	0.79	0.82	0.78	0.81	0.76		
155	1.15	1.19	1.16	1.20	1.16	1.21	1.17	1.21	1.16	1.19	1.15	1.18	1.13	1.17	1.12	1.15	1.11		
160	1.49	1.54	1.50	1.53	1.50	1.54	1.50	1.54	1.50	1.53	1.48	1.52	1.47	1.50	1.45	1.50	1.44		
165	1.81	1.86	1.81	1.86	1.82	1.86	1.83	1.86	1.81	1.85	1.79	1.83	1.78	1.82	1.76	1.81	1.76		
170	2.11	2.15	2.09	2.14	2.09	2.14	2.09	2.13	2.09	2.12	2.07	2.11	2.05	2.09	2.05	2.09	2.04		
175	2.36	2.39	2.33	2.37	2.32	2.36	2.31	2.36	2.30	2.34	2.29	2.33	2.28	2.32	2.28	2.33	2.28		
180	2.48	2.48	2.44	2.44	2.42	2.42	2.43	2.43	2.41	2.41	2.43	2.42	2.39	2.39	2.39	2.40	2.41		

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: 0  
Test Date: 2022-04-26

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: