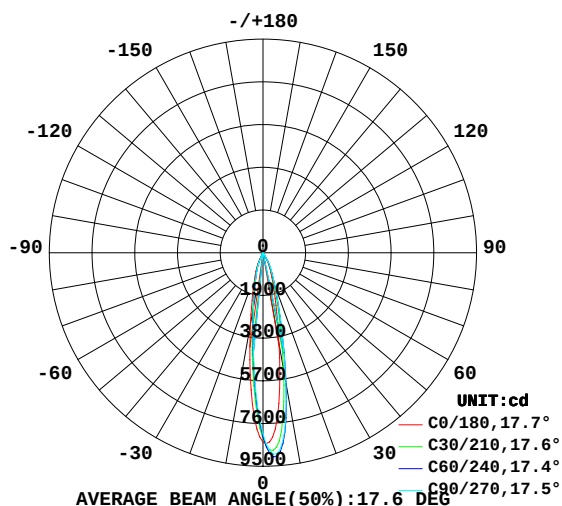


LUMINAIRE PHOTOMETRIC TEST REPORT

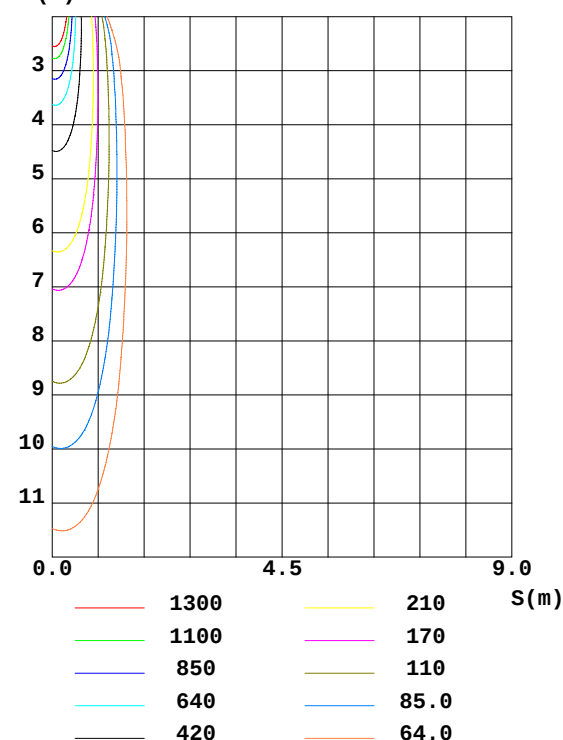
NAME:CL-Spot70 3000k-RA90-18D.	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 88.89 lm/W			
MODEL		I _{max} (cd)	9100	S/MH(C0/180)	0.34
NOMINAL POWER(W)	20	LOR(%)	99.9	S/MH(C90/270)	0.43
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1621.3	η UP, DN(C0-180)	3.3, 58.2
NOMINAL FLUX(lm)	1623.44	CIE CLASS	DIRECT	η UP, DN(C180-360)	3.3, 35.1
LAMPS INSIDE	1	η up(%)	6.6	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	24	η down(%)	93.3	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:2022-04-22

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	4133	5670	5871	4496	3238	2529	2436	2902	0- 10	544.4	544.4	33.6, 33.5
20	1161	1477	1543	1262	978.5	789.2	768.6	898.7	10- 20	576.3	1121	69.1, 69
30	188.1	399.9	434.7	257.9	86.53	62.04	59.69	68.96	20- 30	267.8	1389	85.6, 85.5
40	36.20	40.97	41.78	38.32	31.70	26.72	25.83	29.12	30- 40	41.36	1430	88.2, 88.1
50	18.38	19.60	19.89	18.85	17.57	17.34	17.33	17.41	40- 50	18.56	1448	89.3, 89.2
60	16.90	16.99	17.00	16.90	17.06	16.91	16.92	17.13	50- 60	15.50	1464	90.3, 90.2
70	16.22	16.37	16.38	16.24	16.18	16.06	16.02	16.08	60- 70	16.48	1480	91.3, 91.2
80	15.99	15.99	16.01	15.98	16.10	16.03	16.01	16.03	70- 80	16.97	1497	92.4, 92.2
90	15.98	15.98	16.00	15.97	16.03	16.00	15.99	15.99	80- 90	17.45	1515	93.4, 93.3
100	15.97	15.96	15.99	15.96	15.98	15.99	16.00	15.98	90-100	17.43	1532	94.5, 94.4
110	15.97	15.96	15.98	15.96	15.99	15.99	16.00	15.99	100-110	16.90	1549	95.6, 95.4
120	15.97	15.96	15.98	15.97	16.02	16.01	16.01	16.00	110-120	15.86	1565	96.5, 96.4
130	16.00	15.99	16.03	16.00	16.14	16.19	16.20	16.14	120-130	14.37	1579	97.4, 97.3
140	16.52	16.38	16.40	16.48	16.76	16.99	17.03	16.83	130-140	12.63	1592	98.2, 98.1
150	18.22	17.75	17.74	18.06	18.73	19.39	19.49	18.92	140-150	10.93	1603	98.9, 98.7
160	21.97	21.24	21.15	21.68	22.36	22.99	23.05	22.50	150-160	9.328	1612	99.4, 99.3
170	24.70	24.38	24.33	24.44	24.73	24.75	24.65	24.52	160-170	6.633	1619	99.9, 99.7
180	25.25	25.11	24.95	24.77	25.25	25.10	24.93	24.74	170-180	2.362	1621	100, 99.9
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

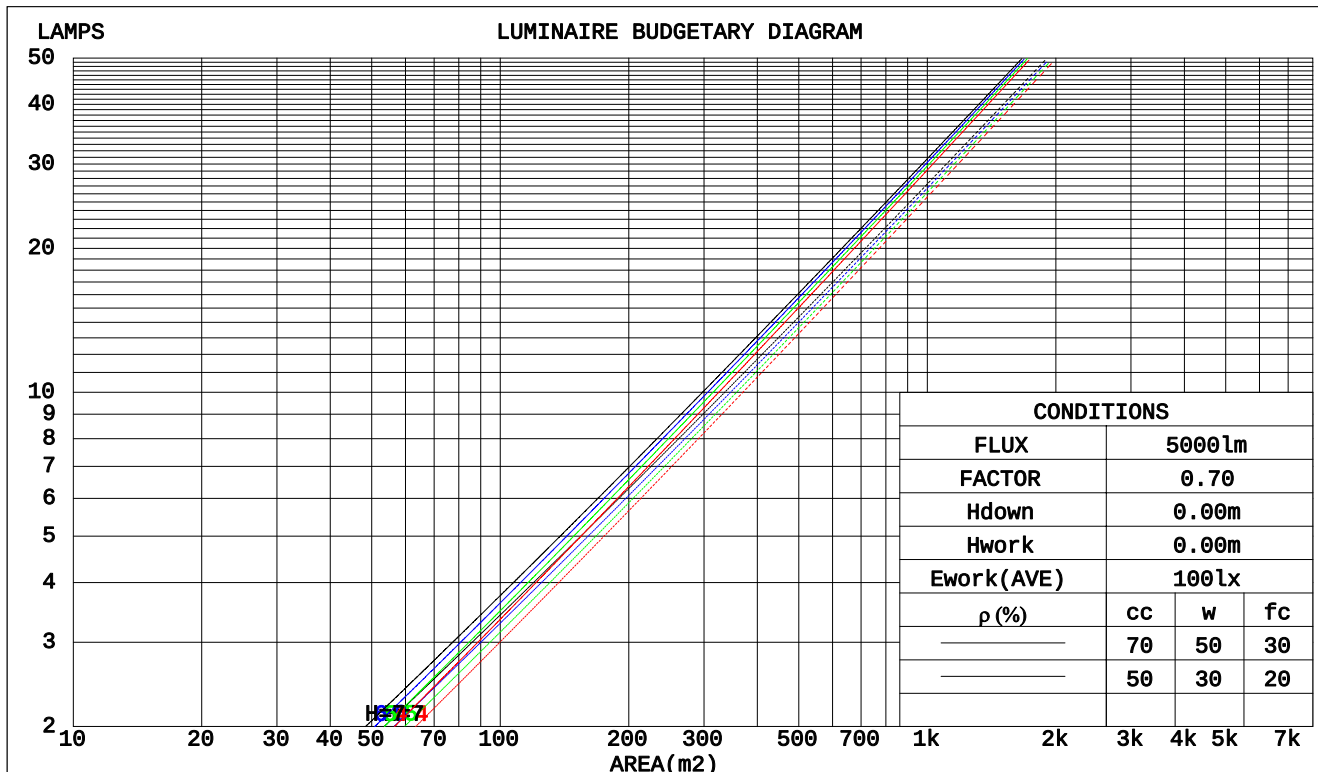
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-04-22

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-RA90-20W-18D.	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	1.17	1.17	1.17	1.14	1.14	1.14	1.07	1.07	1.07	1.01	1.01	1.01	.96	.96	.96	.93
1.0	1.10	1.07	1.05	1.07	1.05	1.03	1.02	1.00	.99	.97	.96	.95	.92	.92	.91	.89
2.0	1.03	.90	.97	1.01	.98	.95	.97	.95	.92	.93	.91	.89	.90	.88	.87	.85
3.0	.98	.94	.91	.96	.93	.90	.93	.90	.87	.90	.87	.85	.87	.85	.83	.82
4.0	.94	.89	.86	.92	.88	.85	.90	.86	.83	.87	.84	.82	.84	.82	.80	.79
5.0	.90	.85	.82	.89	.84	.81	.86	.83	.80	.84	.81	.79	.82	.80	.78	.76
6.0	.87	.82	.79	.85	.81	.78	.83	.80	.77	.82	.78	.76	.80	.77	.75	.74
7.0	.83	.79	.76	.83	.78	.75	.81	.77	.74	.79	.76	.74	.78	.75	.73	.72
8.0	.81	.76	.73	.80	.76	.73	.78	.75	.72	.77	.74	.71	.76	.73	.71	.70
9.0	.78	.74	.71	.77	.73	.70	.76	.72	.70	.75	.72	.69	.74	.71	.69	.68
10.0	.76	.71	.69	.75	.71	.68	.74	.70	.68	.73	.70	.67	.72	.69	.67	.66



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-04-22

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-RA90-20W-18D.	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	.166	.095	.030	.158	.090	.029	.141	.081	.026	.127	.073	.023	.113	.065	.021		
2.0	.150	.082	.025	.142	.078	.024	.129	.071	.022	.116	.065	.020	.104	.059	.019		
3.0	.137	.073	.022	.131	.070	.021	.119	.064	.020	.108	.059	.018	.098	.054	.017		
4.0	.127	.066	.019	.121	.064	.019	.111	.059	.018	.101	.054	.016	.092	.050	.015		
5.0	.118	.060	.017	.114	.058	.017	.104	.054	.016	.096	.051	.015	.088	.047	.014		
6.0	.111	.056	.016	.107	.054	.016	.099	.051	.015	.091	.047	.014	.084	.044	.013		
7.0	.105	.052	.015	.101	.050	.014	.094	.047	.014	.087	.044	.013	.080	.042	.012		
8.0	.099	.048	.014	.096	.047	.013	.089	.045	.013	.083	.042	.012	.077	.040	.012		
9.0	.094	.046	.013	.091	.044	.012	.085	.042	.012	.080	.040	.011	.074	.038	.011		
10.0	.090	.043	.012	.087	.042	.012	.081	.040	.011	.076	.038	.011	.072	.036	.010		

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	.240	.240	.240	.205	.205	.205	.140	.140	.140	.080	.080	.080	.026	.026	.026		
1.0	.221	.208	.196	.189	.178	.169	.129	.123	.117	.074	.071	.068	.024	.023	.022		
2.0	.204	.183	.166	.175	.158	.143	.120	.109	.100	.069	.063	.059	.022	.021	.019		
3.0	.190	.164	.144	.163	.142	.125	.112	.098	.088	.064	.057	.052	.021	.019	.017		
4.0	.178	.149	.128	.153	.129	.111	.105	.090	.078	.061	.053	.046	.020	.017	.015		
5.0	.168	.137	.115	.144	.119	.100	.099	.083	.071	.057	.049	.042	.019	.016	.014		
6.0	.159	.128	.105	.137	.111	.092	.094	.077	.065	.055	.046	.039	.018	.015	.013		
7.0	.151	.120	.098	.130	.104	.085	.090	.073	.060	.052	.043	.036	.017	.014	.012		
8.0	.145	.113	.091	.125	.098	.080	.086	.069	.057	.050	.041	.034	.016	.013	.011		
9.0	.139	.108	.086	.120	.093	.075	.083	.066	.054	.048	.039	.032	.016	.013	.011		
10.0	.134	.103	.082	.116	.089	.072	.080	.063	.051	.047	.037	.030	.015	.012	.010		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-04-22

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:

Uncorrected UGR Table

NAME: Spot70-3000K-RA90-20W-18D.						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	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	0.2	0.9	0.5	1.1	1.4	1.5	2.2	1.8	2.4	2.7	1.5	2.2	1.8	2.4	2.7
3H	2.8	3.4	3.1	3.7	4.0	3.4	4.1	3.8	4.4	4.7	3.4	4.1	3.8	4.4	4.7
4H	4.4	5.0	4.7	5.3	5.6	4.8	5.4	5.2	5.8	6.1	4.8	5.4	5.2	5.8	6.1
6H	6.3	6.9	6.7	7.2	7.6	6.5	7.1	6.9	7.5	7.8	6.5	7.1	6.9	7.5	7.8
8H	7.4	8.0	7.8	8.3	8.7	7.6	8.1	8.0	8.5	8.9	7.6	8.1	8.0	8.5	8.9
12H	8.7	9.2	9.1	9.6	10.0	8.8	9.4	9.2	9.7	10.1	8.8	9.4	9.2	9.7	10.1
4H 2H	1.1	1.7	1.4	2.0	2.3	2.0	2.7	2.4	3.0	3.3	2.0	2.7	2.4	3.0	3.3
3H	3.9	4.5	4.4	4.9	5.2	4.4	4.9	4.8	5.3	5.7	4.4	4.9	4.8	5.3	5.7
4H	5.7	6.2	6.2	6.6	7.1	6.0	6.5	6.5	6.9	7.3	6.0	6.5	6.5	6.9	7.3
6H	7.8	8.3	8.3	8.7	9.2	8.0	8.4	8.5	8.9	9.3	8.0	8.4	8.5	8.9	9.3
8H	9.0	9.4	9.5	9.9	10.4	9.1	9.6	9.6	10.0	10.5	9.1	9.6	9.6	10.0	10.5
12H	10.4	10.8	10.9	11.3	11.8	10.5	10.9	11.0	11.4	11.9	10.5	10.9	11.0	11.4	11.9
8H 4H	6.5	6.9	7.0	7.3	7.8	6.7	7.1	7.2	7.6	8.1	6.7	7.1	7.2	7.6	8.1
6H	8.8	9.2	9.4	9.7	10.2	9.0	9.3	9.5	9.8	10.4	9.0	9.3	9.5	9.8	10.4
8H	10.2	10.5	10.8	11.1	11.6	10.3	10.6	10.9	11.1	11.7	10.3	10.6	10.9	11.1	11.7
12H	11.8	12.1	12.4	12.7	13.3	11.9	12.2	12.5	12.7	13.3	11.9	12.2	12.5	12.7	13.3
12H 4H	6.7	7.1	7.2	7.5	8.1	6.9	7.3	7.4	7.7	8.3	6.9	7.3	7.4	7.7	8.3
6H	9.2	9.5	9.7	10.0	10.6	9.3	9.6	9.8	10.1	10.7	9.3	9.6	9.8	10.1	10.7
8H	10.7	10.9	11.2	11.5	12.1	10.7	11.0	11.3	11.6	12.2	10.7	11.0	11.3	11.6	12.2
Variations with the observer position at spacings:															
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2									
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.2									
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3									

CIE Pub.117 Corrected 1623 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.7)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-04-22

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-RA90-20W-18D.	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

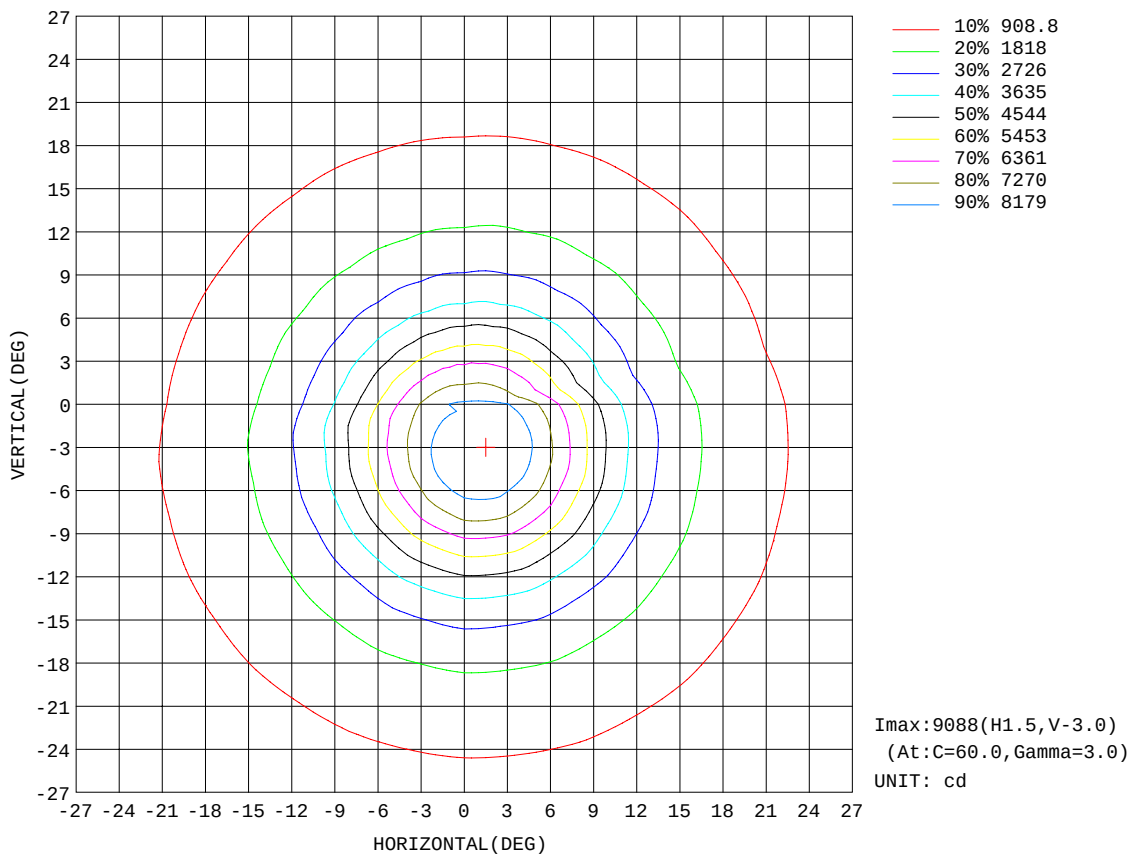
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	78	74	84	77	74	82	77	73	70
0.80	91	85	81	90	85	81	89	84	80	76
1.00	95	89	85	94	89	85	92	88	84	80
1.25	99	94	90	98	93	89	95	91	88	83
1.50	102	97	93	101	96	92	98	94	91	85
2.00	105	100	97	103	99	95	99	96	93	87
2.50	107	102	99	105	101	98	101	98	95	88
3.00	109	105	101	106	103	100	102	99	97	89
4.00	111	108	105	108	105	103	103	101	99	90
5.00	112	110	107	110	107	105	104	103	101	91
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHRNM = 1.25		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-04-22

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-RA90-20W-18D.	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

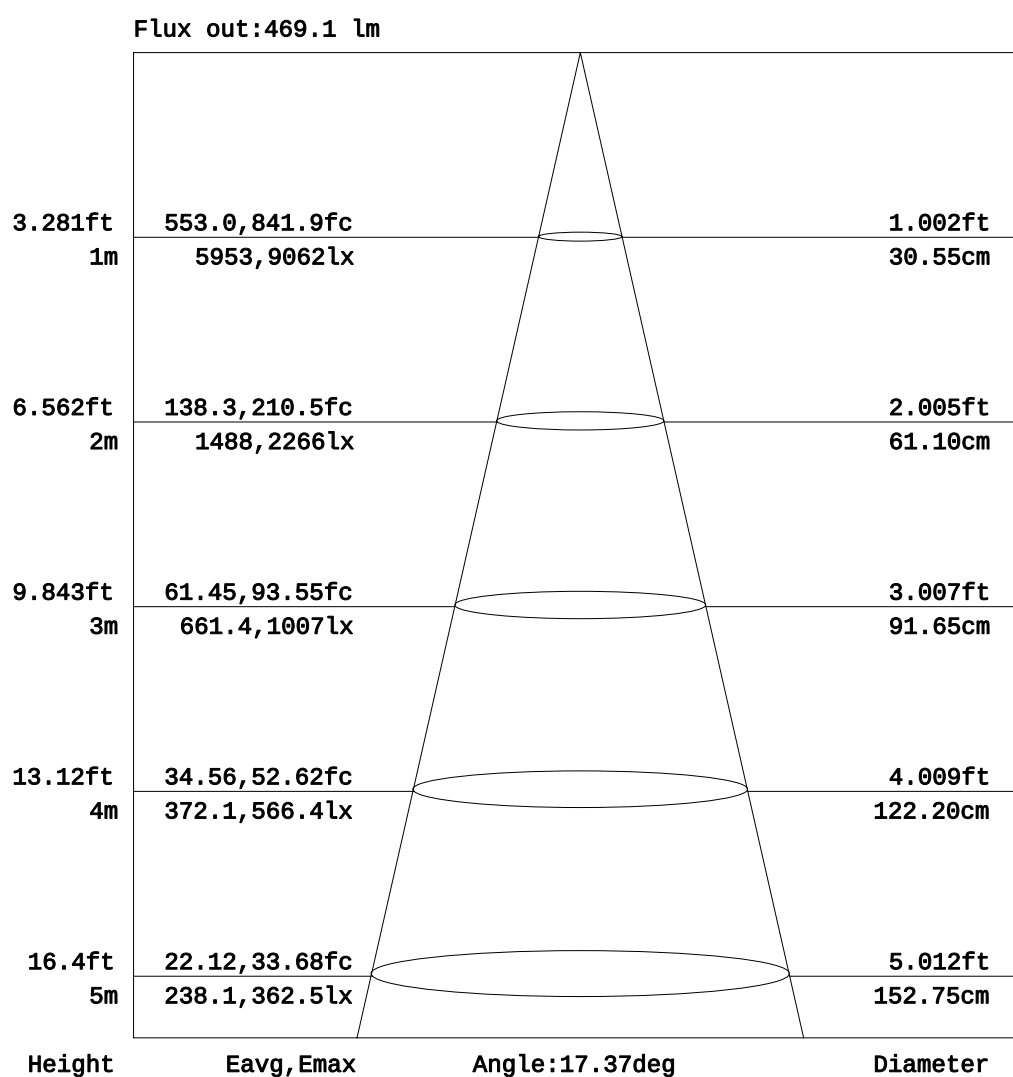


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-04-22

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-RA90-20W-18D.	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:



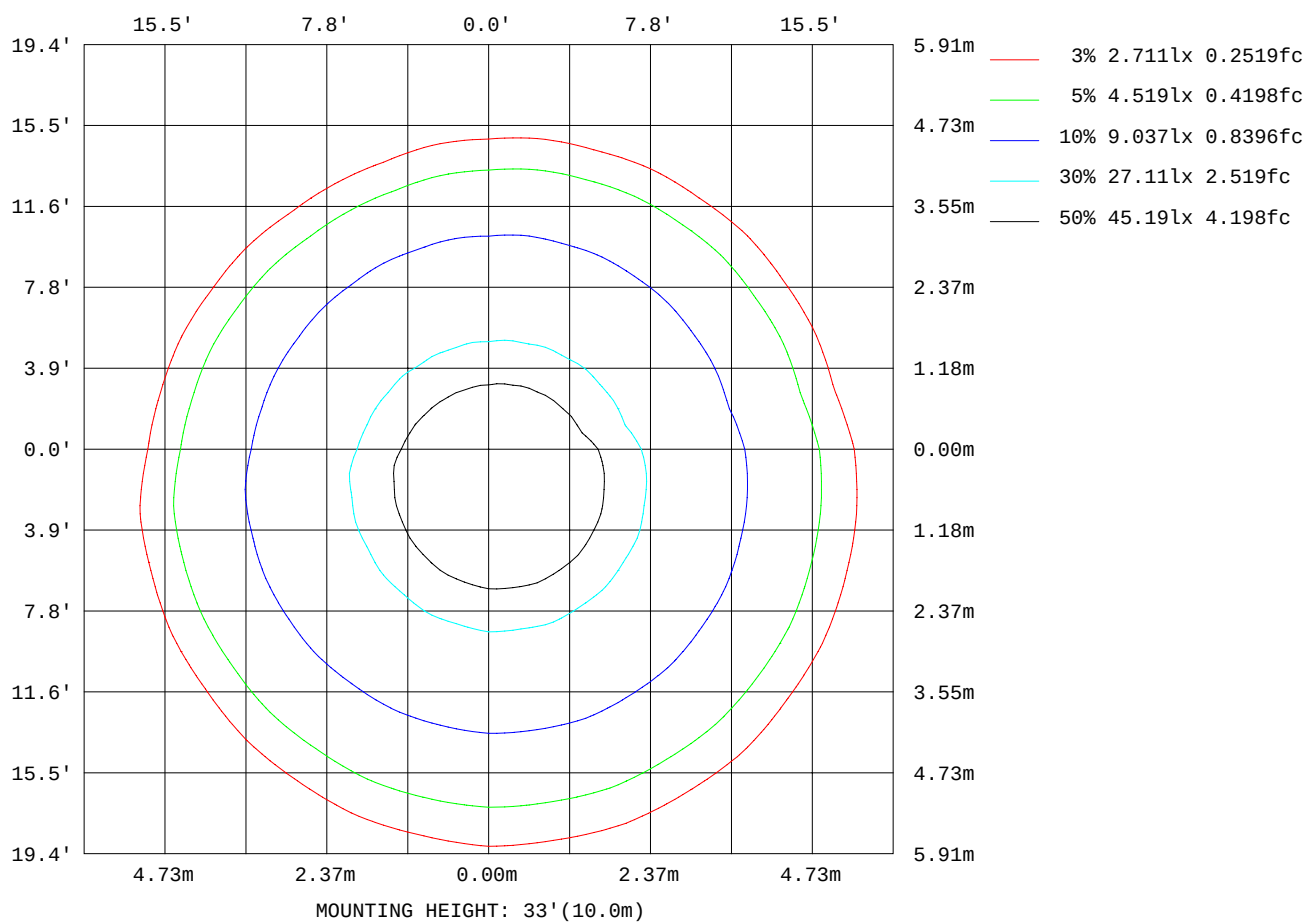
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-04-22

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-RA90-20W-18D.	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: 2022-04-22

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-RA90-20W-18D.	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	1623.44	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	300	300	302	303	304	304	306	305	305	305	304	303	303	301	300	298	297	295	295
60	338	339	339	339	340	340	341	340	341	340	340	339	339	338	338	338	339	339	341
65	399	400	401	402	403	404	405	404	404	403	402	399	400	399	397	396	395	393	391
70	474	474	477	477	479	478	480	479	480	479	479	477	477	475	475	473	471	468	473
75	618	617	618	621	619	618	619	623	618	621	619	617	619	617	618	617	618	616	624
80	921	920	921	921	922	920	921	919	921	922	922	919	922	919	921	919	920	919	927
85	1834	1832	1835	1832	1835	1832	1835	1830	1835	1837	1835	1831	1836	1832	1833	1832	1833	1830	1843

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	1843	200	---	500
Category 2	65 to 90	1843	200	---	500
Category 3	75 to 90	1843	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:2022-04-22

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-RA90-20W-18D.	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	1623.44	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	300	300	302	303	304	304	306	305	305	305	304	303	303	301	300	298	297	295	295
60	338	339	339	339	340	340	341	340	341	340	340	339	339	338	338	338	339	339	341
65	399	400	401	402	403	404	405	404	404	403	402	399	400	399	397	396	395	393	391
70	474	474	477	477	479	478	480	479	480	479	479	477	477	475	475	473	471	468	473
75	618	617	618	621	619	618	619	623	618	621	619	617	619	617	618	617	618	616	624
80	921	920	921	921	922	920	921	919	921	922	922	919	922	919	921	919	920	919	927
85	1834	1832	1835	1832	1835	1832	1835	1830	1835	1837	1835	1831	1836	1832	1833	1832	1833	1830	1843

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	1843	1000	1500	200	500
65 to 90	1843	1000	1500	200	500

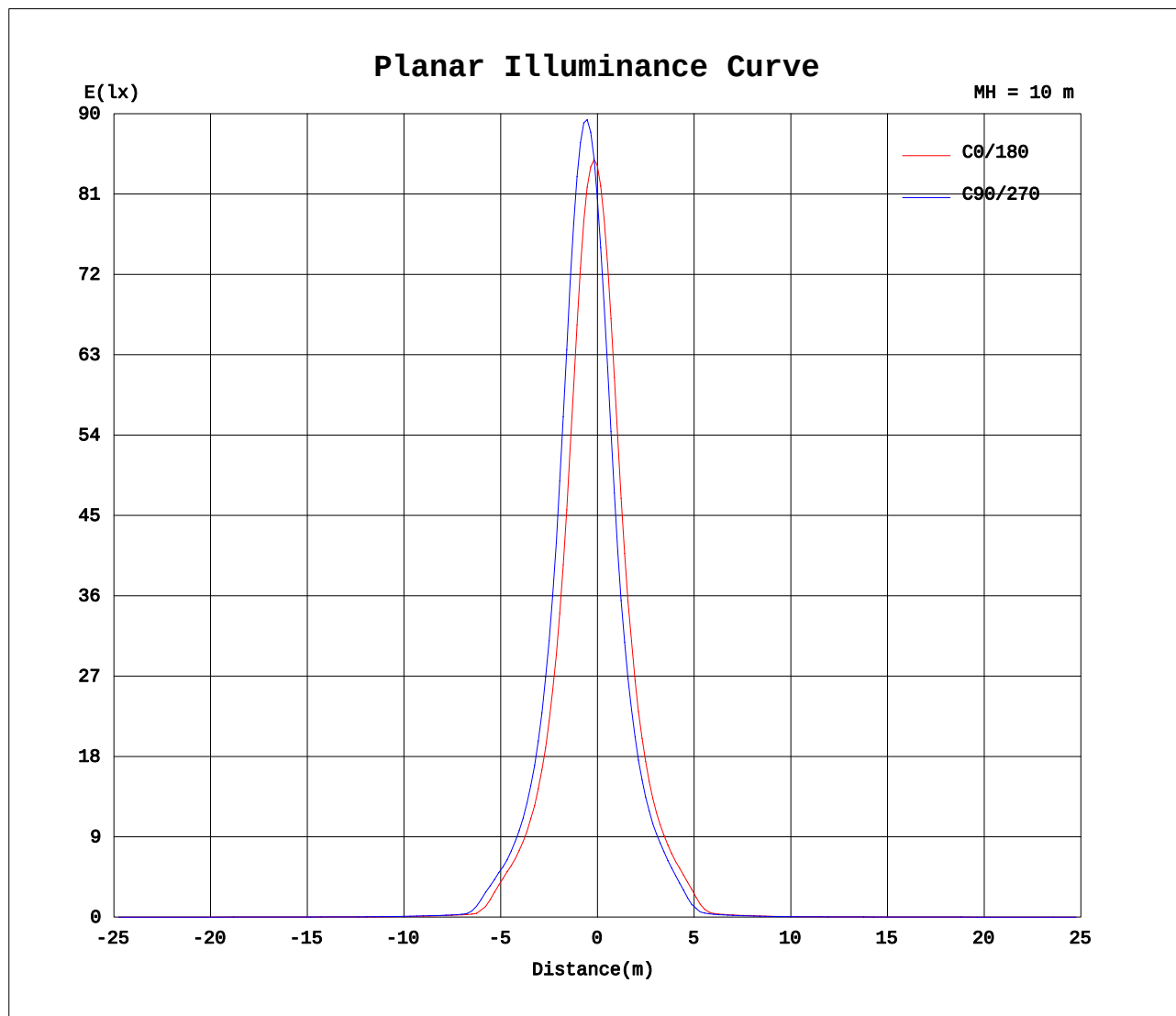
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

No match

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-04-22

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: 2022-04-22

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-RA90-20W-18D.	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
γ (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	8420	8371	8349	8270	8268	8190	8193	8112	8126	8055	8076	8025	8057	8028	8056	8044	8067	8084	8420
5	7355	7750	8073	8398	8601	8788	8873	8941	8871	8775	8558	8331	7997	7707	7330	7048	6713	6495	6120
10	4133	4521	4833	5255	5508	5831	5930	6061	5952	5871	5575	5353	4971	4683	4308	4071	3747	3576	3238
15	2108	2293	2430	2636	2746	2917	2955	3069	2973	2985	2806	2718	2515	2404	2218	2114	1959	1891	1689
20	1161	1238	1313	1392	1440	1515	1539	1581	1549	1543	1473	1438	1360	1301	1222	1176	1110	1072	978
25	686	729	760	798	821	853	864	885	872	866	838	819	784	756	717	691	650	615	527
30	188	256	290	347	378	422	428	446	431	435	396	374	318	289	227	194	154	132	86.5
35	50.6	52.4	54.2	55.9	57.2	59.4	60.3	61.3	61.4	60.9	58.9	58.2	56.0	54.3	52.3	51.4	50.2	49.1	45.8
40	36.2	38.1	38.6	40.0	40.4	41.6	41.8	42.1	41.8	41.8	41.1	40.8	39.7	39.0	37.7	36.8	35.4	34.4	31.7
45	24.2	25.3	25.9	26.9	27.3	28.1	28.3	28.5	28.5	28.5	27.8	27.5	26.7	26.3	25.0	24.6	23.5	22.7	21.4
50	18.4	18.7	19.0	19.3	19.5	19.7	19.7	19.9	19.8	19.9	19.7	19.6	19.3	19.0	18.7	18.4	18.1	17.9	17.6
55	17.2	17.2	17.3	17.4	17.4	17.4	17.5	17.5	17.5	17.5	17.5	17.4	17.4	17.2	17.2	17.1	17.0	16.9	16.9
60	16.9	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	16.9	16.9	16.9	16.9	16.9	16.9	17.1
65	16.8	16.9	16.9	17.0	17.0	17.1	17.1	17.1	17.1	17.0	17.0	16.9	16.9	16.8	16.8	16.7	16.7	16.6	16.5
70	16.2	16.2	16.3	16.3	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.3	16.3	16.2	16.2	16.2	16.1	16.0	16.2
75	16.0	16.0	16.0	16.1	16.0	16.0	16.0	16.1	16.0	16.1	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.1
80	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.1
85	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.1
90	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
95	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
100	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
105	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
110	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
115	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
120	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
125	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
130	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.1	16.1
135	16.2	16.2	16.1	16.2	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.2	16.1	16.2	16.2	16.2	16.2	16.2	16.4
140	16.5	16.5	16.4	16.4	16.4	16.4	16.3	16.4	16.3	16.4	16.4	16.4	16.4	16.5	16.5	16.6	16.5	16.6	16.8
145	17.1	17.1	17.0	17.0	16.9	16.9	16.8	16.8	16.8	16.9	16.9	17.0	17.0	17.1	17.1	17.2	17.2	17.3	17.5
150	18.2	18.1	18.0	17.9	17.8	17.7	17.7	17.7	17.7	17.7	17.8	17.9	17.9	18.0	18.1	18.2	18.3	18.5	18.7
155	19.9	19.7	19.6	19.4	19.3	19.2	19.1	19.1	19.1	19.2	19.3	19.4	19.5	19.6	19.8	19.9	20.1	20.3	20.5
160	22.0	21.8	21.6	21.4	21.3	21.2	21.1	21.1	21.1	21.2	21.3	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4
165	23.6	23.5	23.4	23.2	23.1	23.1	23.0	23.0	23.0	23.0	23.1	23.1	23.2	23.3	23.4	23.5	23.6	23.8	23.8
170	24.7	24.6	24.5	24.5	24.4	24.4	24.3	24.3	24.3	24.3	24.3	24.4	24.4	24.5	24.4	24.5	24.6	24.7	24.7
175	25.1	25.1	25.1	25.1	25.0	25.0	24.9	24.9	24.9	24.9	24.8	24.8	24.8	24.7	24.7	24.7	24.8	24.8	25.1
180	25.2	25.2	25.2	25.2	25.1	25.1	25.1	25.0	25.0	25.0	24.9	24.9	24.8	24.8	24.8	24.7	24.8	24.9	25.2

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-04-22

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-RA90-20W-18D.	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	8371	8349	8270	8268	8190	8193	8112	8126	8055	8076	8025	8057	8028	8056	8044	8067	8084		
5	5761	5532	5228	5105	4910	4876	4766	4822	4806	4941	5011	5228	5374	5665	5859	6190	6413		
10	2965	2816	2651	2588	2469	2457	2400	2437	2436	2522	2568	2711	2796	3009	3101	3329	3472		
15	1569	1507	1418	1379	1335	1315	1302	1306	1326	1362	1385	1456	1499	1595	1645	1756	1820		
20	921	879	829	805	774	768	756	769	769	798	813	849	875	922	949	1003	1033		
25	472	429	368	333	283	275	261	290	292	330	352	402	436	489	516	564	590		
30	74.9	70.1	65.5	63.4	60.7	60.1	58.7	59.5	59.7	61.2	62.0	64.4	66.3	71.6	78.2	92.5	126		
35	44.2	43.2	41.9	40.8	39.7	39.2	38.6	39.2	39.1	39.5	40.2	41.5	42.3	44.1	45.1	46.1	47.3		
40	30.0	28.7	27.7	27.1	26.3	26.1	25.7	25.8	25.8	26.4	26.8	27.8	28.5	29.7	30.9	32.3	33.4		
45	20.4	19.9	19.5	19.3	19.2	19.1	19.0	19.0	18.9	19.1	19.2	19.5	19.8	20.3	20.9	21.9	22.2		
50	17.5	17.4	17.4	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.4	17.4	17.6	17.7	17.9		
55	16.9	16.9	16.9	17.0	17.0	17.0	17.0	17.0	16.9	16.9	16.9	16.8	16.9	16.9	17.0	17.0	17.1		
60	17.1	17.0	17.0	16.9	16.9	16.9	16.9	16.9	16.9	16.9	17.0	17.1	17.1	17.1	16.9	16.9	16.9		
65	16.4	16.3	16.3	16.3	16.3	16.2	16.3	16.3	16.3	16.3	16.3	16.3	16.4	16.4	16.5	16.5	16.6		
70	16.0	16.0	16.0	16.1	16.0	16.2	16.0	16.1	16.0	16.1	16.0	16.0	16.0	16.1	16.0	16.1	16.0		
75	16.0	16.0	16.0	16.1	16.0	16.1	16.0	16.1	16.0	16.0	16.0	16.0	16.0	16.1	16.0	16.1	16.0		
80	16.0	16.0	16.0	16.1	16.0	16.1	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.1	16.0	16.1	16.0		
85	16.0	16.0	16.0	16.0	16.0	16.1	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0		
90	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0		
95	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0		
100	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0		
105	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0		
110	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0		
115	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0		
120	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0		
125	16.0	16.1	16.0	16.1	16.0	16.1	16.0	16.1	16.1	16.1	16.0	16.0	16.0	16.1	16.0	16.0	16.0		
130	16.1	16.2	16.1	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.1	16.2	16.1	16.1	16.1		
135	16.4	16.4	16.4	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.4	16.4	16.4	16.4	16.3	16.3	16.3		
140	16.8	16.9	16.9	17.0	17.0	17.0	17.0	17.1	17.0	17.0	17.0	16.9	16.8	16.8	16.7	16.7	16.6		
145	17.6	17.7	17.8	17.9	17.9	18.0	18.0	18.0	18.0	17.9	17.8	17.7	17.7	17.6	17.5	17.4	17.3		
150	18.9	19.0	19.2	19.3	19.4	19.5	19.5	19.5	19.5	19.4	19.3	19.1	19.0	18.8	18.7	18.6	18.4		
155	20.7	20.9	21.1	21.2	21.3	21.4	21.4	21.4	21.4	21.3	21.1	21.0	20.8	20.6	20.5	20.3	20.1		
160	22.5	22.7	22.8	23.0	23.0	23.1	23.1	23.1	23.1	23.0	22.8	22.7	22.6	22.4	22.3	22.1	22.0		
165	23.9	24.0	24.1	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.0	24.0	23.9	23.8	23.7	23.6	23.5		
170	24.7	24.7	24.7	24.8	24.7	24.7	24.7	24.7	24.7	24.7	24.6	24.6	24.5	24.5	24.5	24.5	24.4		
175	25.0	25.0	24.9	24.9	24.8	24.8	24.8	24.8	24.7	24.7	24.6	24.6	24.6	24.6	24.6	24.7	24.7		
180	25.2	25.2	25.2	25.1	25.1	25.0	25.0	25.0	24.9	24.9	24.8	24.8	24.7	24.7	24.7	24.8	24.9		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-04-22

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: