

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P973874

Luminaire Tested: FLR2-22-45HE-L935-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-45HE-L935-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

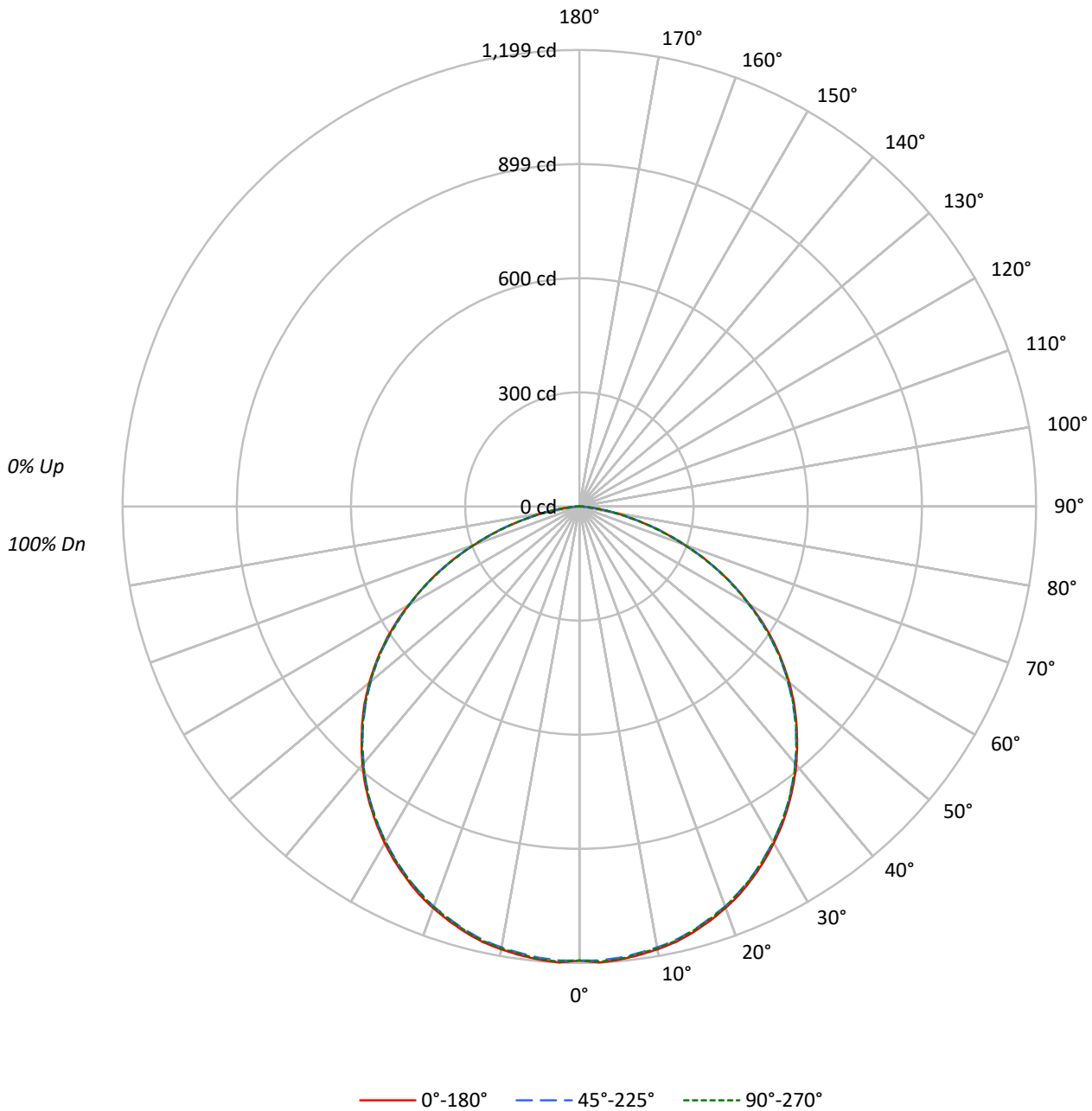
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3334.7 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0														
RCR																																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100														
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71						71														
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60						60														
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44														
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39														
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30						30														
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27						27														
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3209	3209	3209
5°	3229	3215	3225
10°	3228	3214	3220
15°	3226	3211	3215
20°	3214	3202	3206
25°	3197	3184	3186
30°	3174	3161	3163
35°	3145	3133	3136
40°	3112	3097	3100
45°	3067	3052	3058
50°	3013	2991	2997
55°	2927	2903	2913
60°	2782	2771	2771
65°	2598	2593	2584
70°	2301	2312	2306
75°	1937	1922	1907
80°	1393	1370	1358
85°	729	729	704

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3067 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.9	3.4
10°-20°	324.7	9.7
20°-30°	493.5	14.8
30°-40°	596.4	17.9
40°-50°	619.1	18.6
50°-60°	553.5	16.6
60°-70°	402.4	12.1
70°-80°	197.9	5.9
80°-90°	34.3	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	931.1	27.9
0°-40°	1527.5	45.8
0°-60°	2700.1	81.0
0°-90°	3334.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3334.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1192	1192	1192	1192	1192	
5°	1195	1181	1190	1186	1194	114
15°	1158	1145	1153	1150	1154	327
25°	1077	1065	1072	1070	1073	496
35°	958	951	954	954	954	599
45°	806	802	802	804	804	622
55°	624	620	619	620	621	556
65°	408	410	407	407	406	402
75°	186	188	185	186	183	198
85°	24	24	24	24	23	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1192.4	1192.4	1192.4	1192.4	1192.4
2.5°	1199.1	1185.1	1193.9	1188.8	1196.9
5°	1195.4	1181.4	1190.2	1185.8	1193.9
7.5°	1188.8	1174.8	1183.6	1179.2	1185.8
10°	1181.4	1166.7	1176.2	1171.8	1178.5
12.5°	1171.8	1157.8	1166.7	1163.0	1168.9
15°	1157.8	1144.6	1152.7	1149.7	1154.1
17.5°	1140.9	1127.6	1135.7	1133.5	1137.2
20°	1122.5	1110.0	1118.1	1115.8	1119.5
22.5°	1101.9	1088.6	1096.0	1094.5	1097.4
25°	1076.8	1065.0	1072.4	1070.2	1073.1
27.5°	1050.3	1039.2	1045.1	1045.1	1046.6
30°	1021.6	1011.3	1017.2	1017.2	1017.9
32.5°	990.6	982.5	986.2	987.0	987.0
35°	957.5	950.9	953.8	954.5	954.5
37.5°	922.9	916.2	918.5	919.9	919.9
40°	886.0	880.2	881.6	883.1	882.4
42.5°	846.3	841.9	842.6	844.1	844.1
45°	805.8	802.1	802.1	803.6	803.6
47.5°	764.5	760.8	759.4	760.8	760.8
50°	719.6	715.9	714.4	715.9	715.9
52.5°	672.5	668.8	668.8	668.8	669.5
55°	623.8	620.2	618.7	620.2	620.9
57.5°	572.3	570.8	568.6	569.3	567.1
60°	517.0	517.0	514.8	516.3	514.8
62.5°	463.3	464.8	462.5	462.5	461.1
65°	408.0	409.5	407.3	407.3	405.8
67.5°	351.3	353.5	350.6	350.6	349.1
70°	292.4	296.8	293.9	294.6	293.1
72.5°	239.4	241.6	238.6	238.6	237.2
75°	186.3	187.8	184.9	185.6	183.4
77.5°	134.0	136.3	133.3	134.0	133.3
80°	89.9	90.6	88.4	89.1	87.6
82.5°	52.3	53.0	52.3	51.6	50.8
85°	23.6	24.3	23.6	23.6	22.8
87.5°	5.9	5.9	5.9	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)