

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: P973567

Luminaire Tested: FLR2-22-35-L835-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973567
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: FLR2-22-35-L835-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

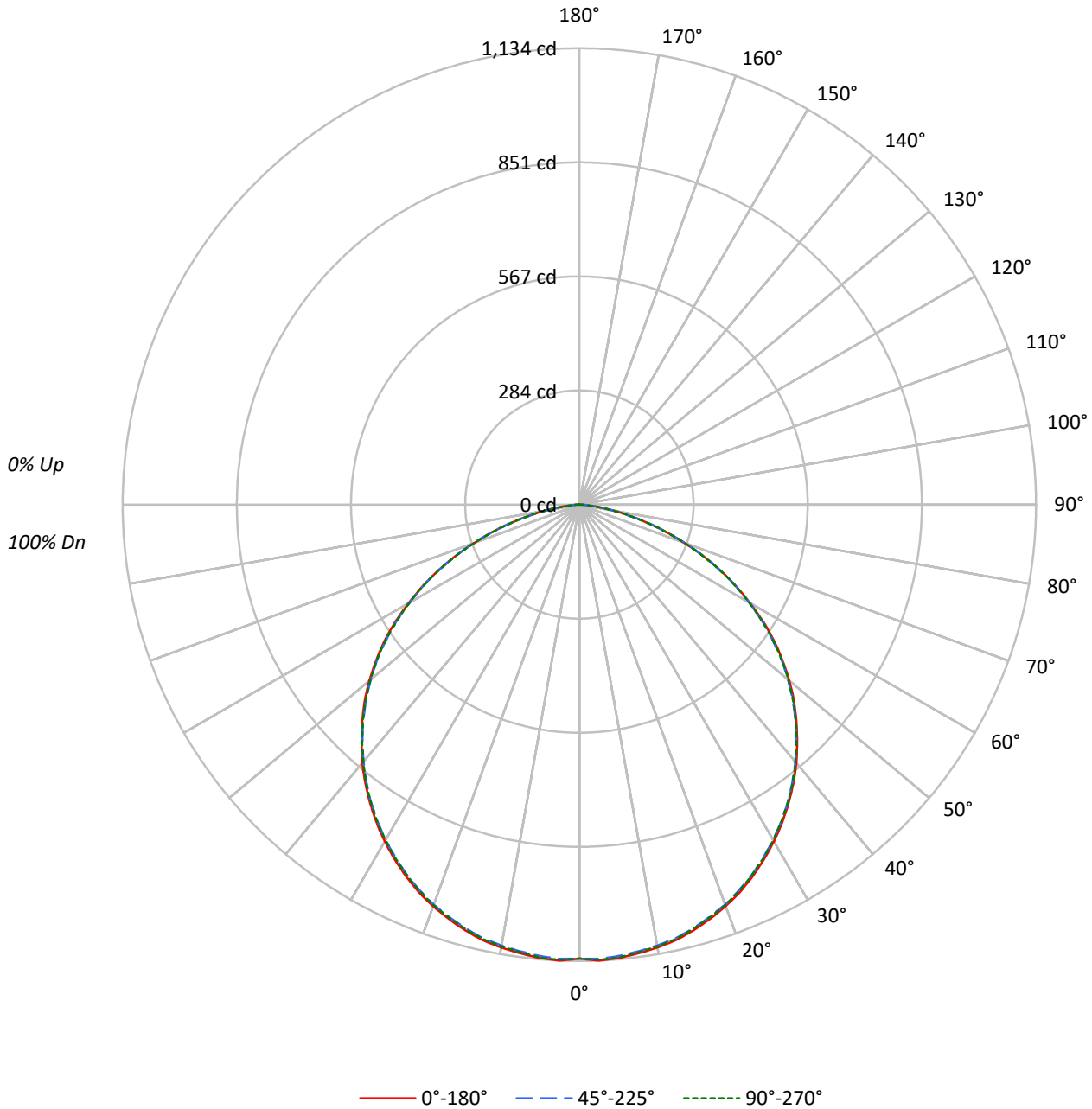
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3154.7 lumens
Efficiency: N/A
Efficacy: 113.1 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): 27.9
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																				
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85																				
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71																				
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60																				
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51																				
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44																				
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39																				
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																				
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30																				
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27																				
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3036	3036	3036
5°	3055	3042	3051
10°	3054	3040	3046
15°	3051	3038	3042
20°	3041	3029	3033
25°	3025	3012	3014
30°	3003	2990	2992
35°	2976	2964	2966
40°	2944	2930	2932
45°	2901	2888	2893
50°	2850	2830	2835
55°	2769	2746	2756
60°	2632	2621	2621
65°	2458	2453	2444
70°	2176	2187	2182
75°	1833	1818	1804
80°	1317	1296	1285
85°	689	689	667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2901 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	3.4
10°-20°	307.2	9.7
20°-30°	466.8	14.8
30°-40°	564.2	17.9
40°-50°	585.7	18.6
50°-60°	523.6	16.6
60°-70°	380.7	12.1
70°-80°	187.2	5.9
80°-90°	32.5	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°	880.8	27.9
0°-40°	1445.1	45.8
0°-60°	2554.3	81.0
0°-90°	3154.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3154.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1131	1118	1126	1122	1130	107
15°	1095	1083	1090	1088	1092	309
25°	1019	1008	1014	1012	1015	470
35°	906	900	902	903	903	567
45°	762	759	759	760	760	588
55°	590	587	585	587	587	526
65°	386	387	385	385	384	381
75°	176	178	175	176	174	187
85°	22	23	22	22	22	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1128.1	1128.1	1128.1	1128.1	1128.1
2.5°	1134.3	1121.1	1129.5	1124.6	1132.2
5°	1130.9	1117.6	1126.0	1121.8	1129.5
7.5°	1124.6	1111.3	1119.7	1115.5	1121.8
10°	1117.6	1103.7	1112.7	1108.6	1114.8
12.5°	1108.6	1095.3	1103.7	1100.2	1105.8
15°	1095.3	1082.8	1090.4	1087.7	1091.8
17.5°	1079.3	1066.8	1074.4	1072.3	1075.8
20°	1061.9	1050.0	1057.7	1055.6	1059.1
22.5°	1042.4	1029.8	1036.8	1035.4	1038.2
25°	1018.7	1007.5	1014.5	1012.4	1015.2
27.5°	993.6	983.1	988.7	988.7	990.1
30°	966.4	956.7	962.2	962.2	962.9
32.5°	937.2	929.5	933.0	933.7	933.7
35°	905.8	899.5	902.3	903.0	903.0
37.5°	873.1	866.8	868.9	870.3	870.3
40°	838.2	832.6	834.0	835.4	834.7
42.5°	800.6	796.4	797.1	798.5	798.5
45°	762.3	758.8	758.8	760.2	760.2
47.5°	723.2	719.8	718.4	719.8	719.8
50°	680.7	677.3	675.9	677.3	677.3
52.5°	636.1	632.7	632.7	632.7	633.4
55°	590.2	586.7	585.3	586.7	587.4
57.5°	541.4	540.0	537.9	538.6	536.5
60°	489.1	489.1	487.0	488.4	487.0
62.5°	438.3	439.7	437.6	437.6	436.2
65°	386.0	387.4	385.3	385.3	383.9
67.5°	332.4	334.4	331.7	331.7	330.3
70°	276.6	280.8	278.0	278.7	277.3
72.5°	226.4	228.5	225.8	225.8	224.4
75°	176.3	177.7	174.9	175.6	173.5
77.5°	126.8	128.9	126.1	126.8	126.1
80°	85.0	85.7	83.6	84.3	82.9
82.5°	49.5	50.2	49.5	48.8	48.1
85°	22.3	23.0	22.3	22.3	21.6
87.5°	5.6	5.6	5.6	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)