

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: P973824

Luminaire Tested: FLR2-22-25HE-L835-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973824
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: FLR2-22-25HE-L835-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

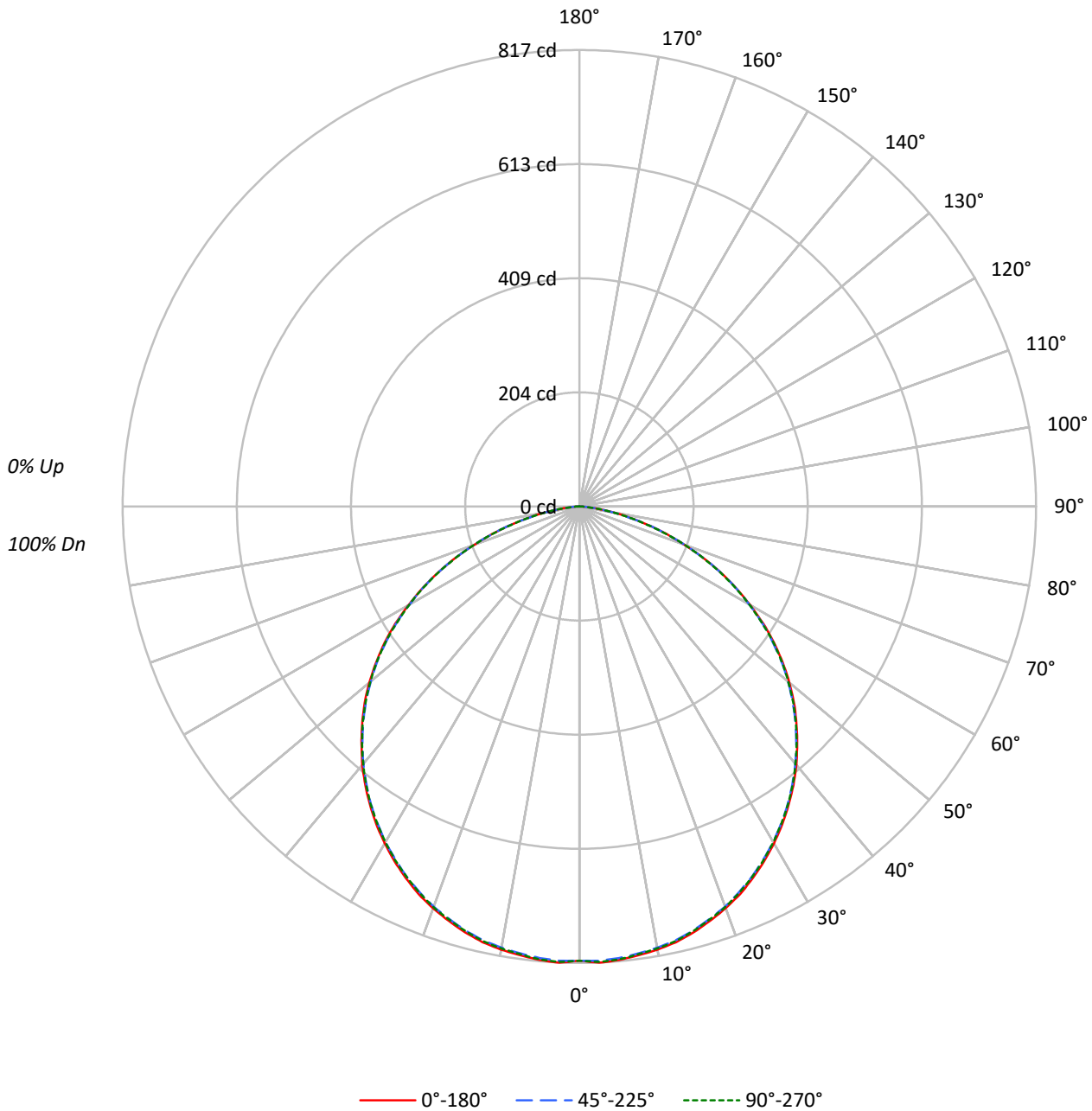
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2273.3 lumens
Efficiency: N/A
Efficacy: 118.4 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): 19.2
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																				
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°	2187	2187	2187
5°	2201	2192	2199
10°	2201	2191	2195
15°	2199	2189	2192
20°	2191	2183	2186
25°	2180	2171	2172
30°	2164	2155	2156
35°	2144	2136	2138
40°	2122	2111	2113
45°	2090	2081	2085
50°	2054	2039	2043
55°	1995	1979	1986
60°	1897	1889	1889
65°	1771	1768	1762
70°	1568	1576	1572
75°	1320	1310	1300
80°	950	934	927
85°	497	497	482

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2090 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	3.4
10°-20°	221.4	9.7
20°-30°	336.4	14.8
30°-40°	406.6	17.9
40°-50°	422.0	18.6
50°-60°	377.3	16.6
60°-70°	274.3	12.1
70°-80°	134.9	5.9
80°-90°	23.4	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°	634.8	27.9
0°-40°	1041.3	45.8
0°-60°	1840.7	81.0
0°-90°	2273.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2273.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	813	813	813	813	813	
5°	815	805	811	808	814	77
15°	789	780	786	784	787	223
25°	734	726	731	730	732	338
35°	653	648	650	651	651	408
45°	549	547	547	548	548	424
55°	425	423	422	423	423	379
65°	278	279	278	278	277	274
75°	127	128	126	126	125	135
85°	16	17	16	16	16	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	812.9	812.9	812.9	812.9	812.9
2.5°	817.4	807.9	813.9	810.4	815.9
5°	814.9	805.4	811.4	808.4	813.9
7.5°	810.4	800.9	806.9	803.9	808.4
10°	805.4	795.3	801.9	798.9	803.4
12.5°	798.9	789.3	795.3	792.8	796.9
15°	789.3	780.3	785.8	783.8	786.8
17.5°	777.8	768.7	774.3	772.8	775.3
20°	765.2	756.7	762.2	760.7	763.2
22.5°	751.2	742.1	747.1	746.1	748.1
25°	734.1	726.1	731.1	729.6	731.6
27.5°	716.0	708.5	712.5	712.5	713.5
30°	696.4	689.4	693.4	693.4	693.9
32.5°	675.3	669.8	672.3	672.8	672.8
35°	652.7	648.2	650.2	650.7	650.7
37.5°	629.1	624.6	626.1	627.1	627.1
40°	604.0	600.0	601.0	602.0	601.5
42.5°	576.9	573.9	574.4	575.4	575.4
45°	549.3	546.8	546.8	547.8	547.8
47.5°	521.2	518.7	517.7	518.7	518.7
50°	490.6	488.1	487.0	488.1	488.1
52.5°	458.4	455.9	455.9	455.9	456.4
55°	425.3	422.8	421.8	422.8	423.3
57.5°	390.1	389.1	387.6	388.1	386.6
60°	352.5	352.5	351.0	352.0	351.0
62.5°	315.8	316.8	315.3	315.3	314.3
65°	278.2	279.2	277.7	277.7	276.7
67.5°	239.5	241.0	239.0	239.0	238.0
70°	199.3	202.4	200.3	200.8	199.8
72.5°	163.2	164.7	162.7	162.7	161.7
75°	127.0	128.0	126.0	126.5	125.0
77.5°	91.4	92.9	90.9	91.4	90.9
80°	61.3	61.8	60.3	60.8	59.8
82.5°	35.7	36.2	35.7	35.1	34.6
85°	16.1	16.6	16.1	16.1	15.6
87.5°	4.0	4.0	4.0	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)