

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: P974703

Luminaire Tested: FLR2-24-20HE-L835-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-20HE-L835-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

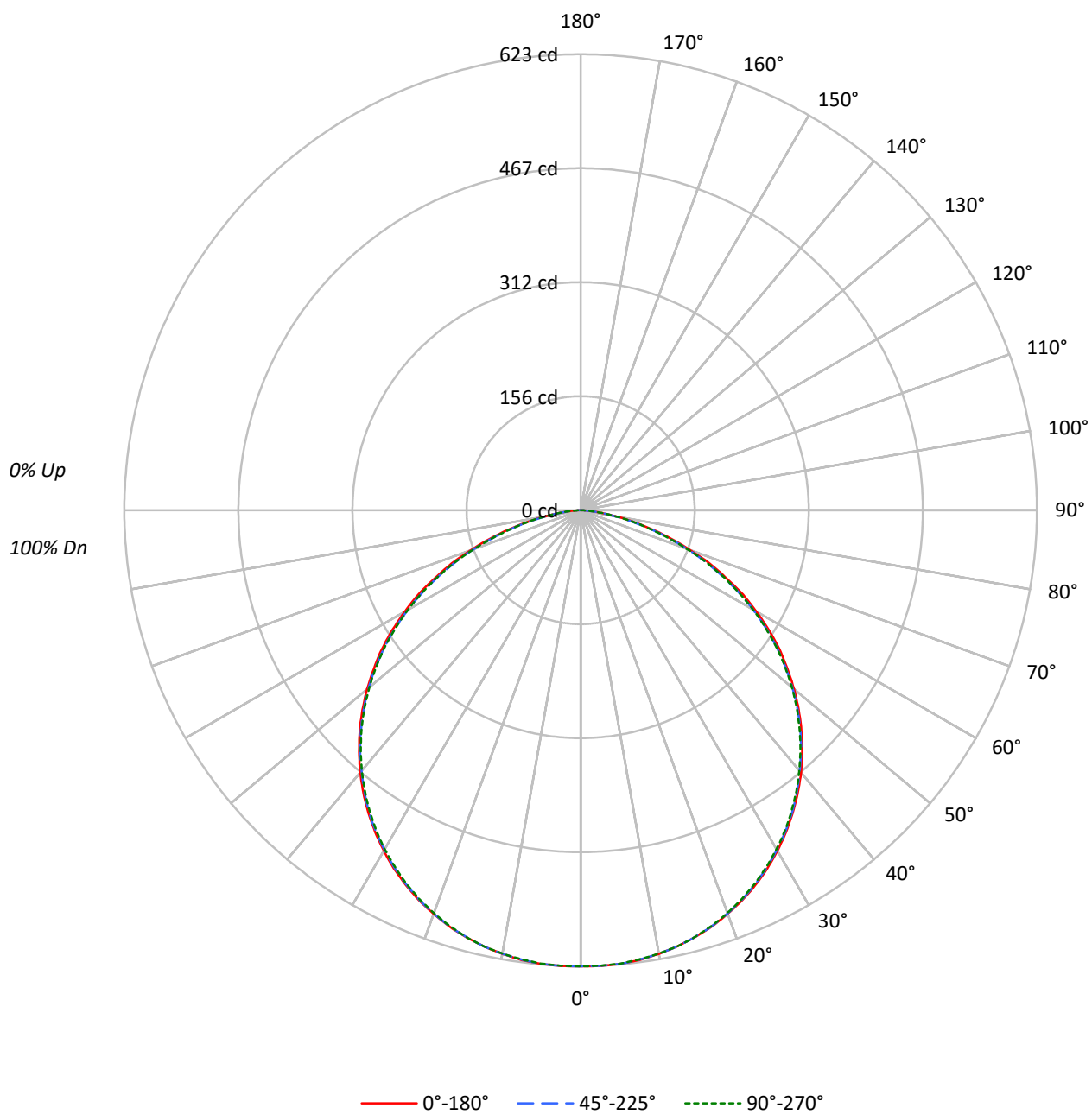
Lumens per Lamp: N/A
Luminaire Lumens: 1762.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 14.9
Input Voltage (V):
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					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	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	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	839	839	839
5°	840	840	840
10°	841	841	841
15°	841	841	841
20°	840	840	839
25°	839	837	836
30°	835	833	831
35°	830	828	825
40°	822	817	816
45°	812	807	805
50°	796	790	788
55°	778	767	766
60°	745	732	732
65°	697	681	683
70°	627	608	606
75°	527	506	504
80°	385	366	381
85°	218	201	204

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 812 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.2	3.4
10°-20°	170.5	9.7
20°-30°	259.9	14.8
30°-40°	314.9	17.9
40°-50°	327.1	18.6
50°-60°	292.6	16.6
60°-70°	213.3	12.1
70°-80°	105.6	6.0
80°-90°	18.9	1.1
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°	489.6	27.8
0°-40°	804.5	45.7
0°-60°	1424.2	80.8
0°-90°	1762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1762.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	623	623	623	623	623	
5°	622	622	622	622	622	59
15°	604	604	604	604	604	171
25°	565	564	564	564	563	260
35°	505	504	504	503	502	316
45°	427	426	424	423	423	329
55°	332	329	327	327	326	295
65°	219	217	214	215	214	217
75°	101	100	97	99	97	108
85°	14	13	13	13	13	20
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	623.4	623.4	623.4	623.4	623.4
2.5°	623.4	623.2	623.2	623.4	623.0
5°	622.3	622.5	622.3	622.3	621.9
7.5°	619.9	619.6	619.4	619.6	619.0
10°	615.6	615.6	615.4	615.6	615.2
12.5°	610.5	610.5	610.5	610.7	610.5
15°	604.0	603.7	603.7	604.2	603.7
17.5°	596.4	596.1	596.1	595.9	595.5
20°	587.0	587.0	586.7	586.5	585.9
22.5°	576.9	576.7	576.0	576.0	575.1
25°	565.0	564.4	563.9	563.7	563.0
27.5°	552.1	551.2	550.5	550.1	549.4
30°	537.5	536.6	536.0	535.3	534.9
32.5°	521.9	521.4	520.3	520.1	519.2
35°	505.1	504.4	503.8	502.9	502.0
37.5°	487.2	486.5	485.0	484.5	483.8
40°	468.2	467.3	465.3	465.3	464.6
42.5°	447.8	446.9	445.6	444.7	444.3
45°	426.6	425.7	424.1	423.2	422.8
47.5°	404.0	403.3	401.5	400.9	400.2
50°	380.5	379.6	377.6	377.1	376.5
52.5°	355.9	355.4	352.8	352.5	351.9
55°	331.5	329.1	326.8	326.8	326.4
57.5°	304.7	302.9	300.0	300.0	299.5
60°	276.9	275.4	272.0	272.5	272.0
62.5°	249.9	246.5	243.4	244.7	243.6
65°	219.0	217.2	213.9	214.7	214.5
67.5°	190.8	187.5	184.3	186.1	185.2
70°	159.5	157.7	154.6	156.4	154.1
72.5°	130.0	128.4	125.3	127.3	125.0
75°	101.3	99.8	97.3	99.1	96.9
77.5°	74.3	73.1	70.9	72.7	73.1
80°	49.7	48.3	47.2	48.8	49.2
82.5°	29.1	28.2	27.7	28.0	29.1
85°	14.1	13.0	13.0	13.2	13.2
87.5°	3.8	3.4	3.8	4.0	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)