

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: P974579

Luminaire Tested: FLR2-24-80HE-L830-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974579
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: FLR2-24-80HE-L830-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

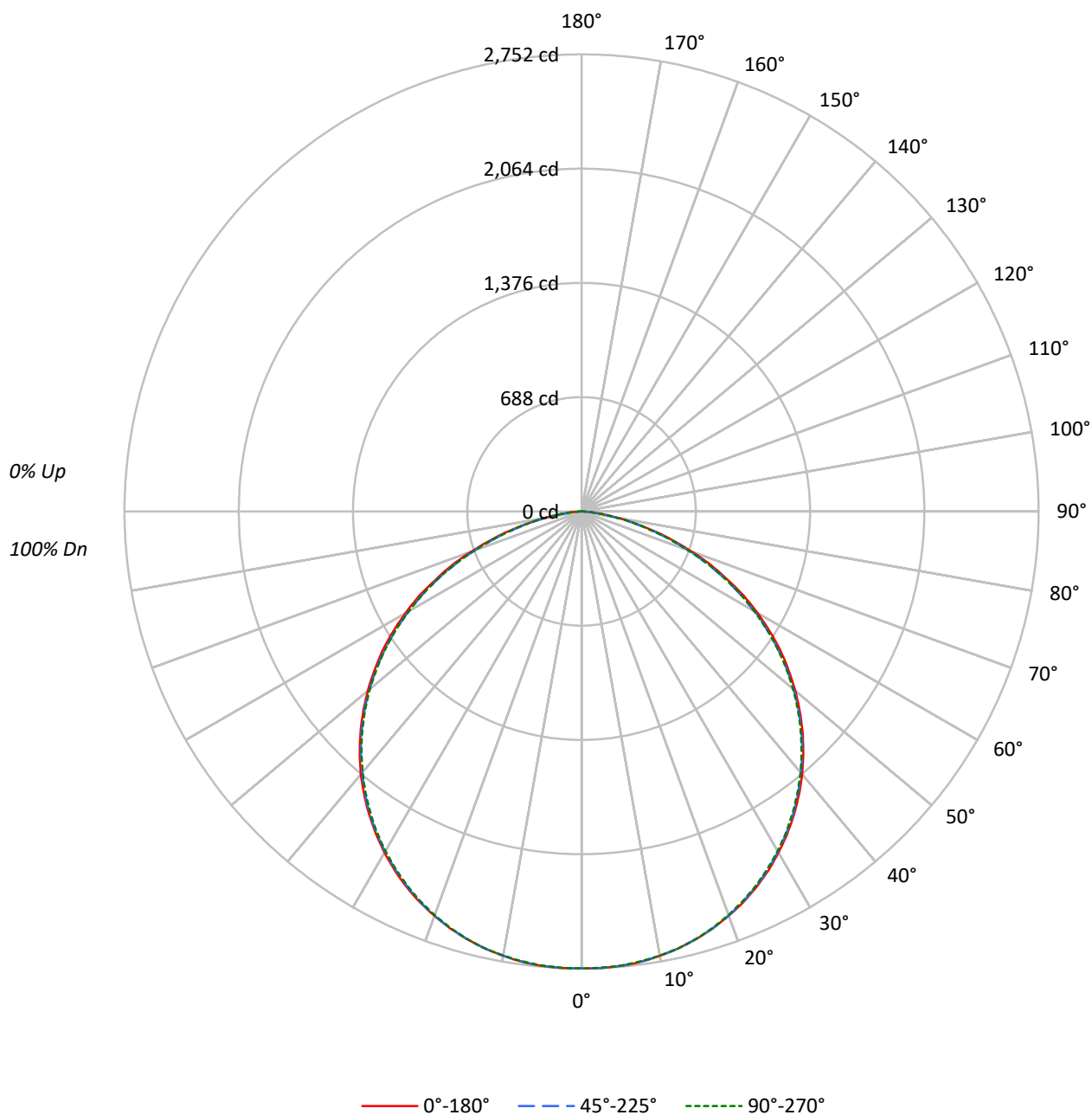
Lumens per Lamp: N/A
Luminaire Lumens: 7777.8 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 63.5
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°	3703	3703	3703
5°	3710	3710	3707
10°	3713	3711	3710
15°	3714	3712	3712
20°	3710	3708	3703
25°	3703	3696	3690
30°	3686	3676	3668
35°	3662	3653	3640
40°	3630	3607	3602
45°	3583	3562	3551
50°	3516	3489	3478
55°	3433	3384	3379
60°	3289	3231	3231
65°	3078	3005	3015
70°	2769	2684	2676
75°	2325	2233	2222
80°	1698	1614	1683
85°	960	885	900

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3583 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.2	3.4
10°-20°	752.5	9.7
20°-30°	1147.3	14.8
30°-40°	1390.1	17.9
40°-50°	1443.9	18.6
50°-60°	1291.7	16.6
60°-70°	941.4	12.1
70°-80°	466.2	6.0
80°-90°	83.3	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°	2161.1	27.8
0°-40°	3551.1	45.7
0°-60°	6286.8	80.8
0°-90°	7777.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7777.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2752	2752	2752	2752	2752	
5°	2747	2748	2747	2747	2745	261
15°	2666	2665	2665	2667	2665	753
25°	2494	2491	2489	2488	2485	1150
35°	2230	2227	2224	2220	2216	1395
45°	1883	1879	1872	1868	1866	1451
55°	1463	1452	1443	1443	1441	1304
65°	967	959	944	948	947	958
75°	447	440	430	437	428	477
85°	62	57	57	58	58	86
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2751.9	2751.9	2751.9	2751.9	2751.9
2.5°	2751.9	2750.9	2750.9	2751.9	2749.9
5°	2747.0	2748.0	2747.0	2747.0	2745.0
7.5°	2736.1	2735.1	2734.1	2735.1	2732.2
10°	2717.4	2717.4	2716.4	2717.4	2715.4
12.5°	2694.6	2694.6	2694.6	2695.6	2694.6
15°	2666.0	2665.0	2665.0	2667.0	2665.0
17.5°	2632.4	2631.5	2631.5	2630.5	2628.5
20°	2591.0	2591.0	2590.0	2589.0	2586.0
22.5°	2546.5	2545.5	2542.6	2542.6	2538.6
25°	2494.2	2491.2	2489.3	2488.3	2485.3
27.5°	2436.9	2433.0	2430.0	2428.0	2425.1
30°	2372.7	2368.8	2365.8	2362.9	2360.9
32.5°	2303.6	2301.7	2296.7	2295.7	2291.8
35°	2229.6	2226.6	2223.7	2219.7	2215.8
37.5°	2150.6	2147.6	2140.7	2138.7	2135.8
40°	2066.7	2062.7	2053.8	2053.8	2050.9
42.5°	1976.8	1972.8	1966.9	1963.0	1961.0
45°	1883.0	1879.0	1872.1	1868.2	1866.2
47.5°	1783.3	1780.3	1772.4	1769.4	1766.5
50°	1679.6	1675.6	1666.8	1664.8	1661.8
52.5°	1571.0	1569.0	1557.1	1556.2	1553.2
55°	1463.3	1452.5	1442.6	1442.6	1440.6
57.5°	1344.9	1337.0	1324.1	1324.1	1322.1
60°	1222.4	1215.5	1200.7	1202.7	1200.7
62.5°	1102.9	1088.1	1074.3	1080.2	1075.3
65°	966.7	958.8	944.0	947.9	946.9
67.5°	842.3	827.5	813.6	821.5	817.6
70°	704.0	696.1	682.3	690.2	680.3
72.5°	573.7	566.8	553.0	561.8	552.0
75°	447.3	440.4	429.5	437.4	427.5
77.5°	327.8	322.9	313.0	320.9	322.9
80°	219.2	213.3	208.3	215.3	217.2
82.5°	128.4	124.4	122.4	123.4	128.4
85°	62.2	57.3	57.3	58.3	58.3
87.5°	16.8	14.8	16.8	17.8	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)