

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: P973728

Luminaire Tested: FLR2-22-25HE-L830-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973728
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-L830-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

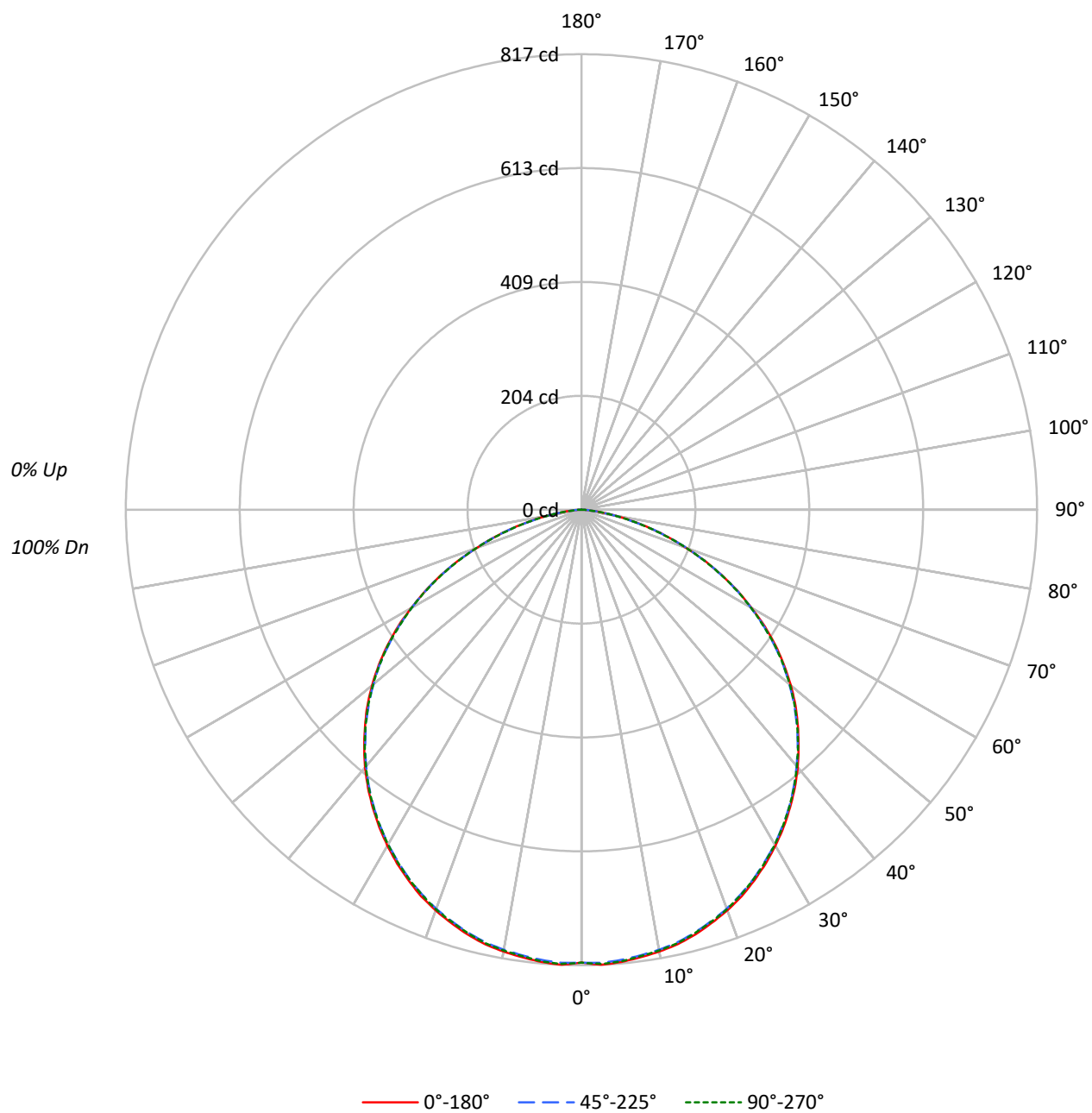
Lumens per Lamp: N/A
Luminaire Lumens: 2271.7 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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					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	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°	2186	2186	2186
5°	2200	2190	2197
10°	2199	2190	2194
15°	2198	2188	2191
20°	2190	2181	2184
25°	2178	2169	2171
30°	2162	2153	2155
35°	2143	2135	2136
40°	2120	2110	2112
45°	2089	2079	2083
50°	2052	2038	2042
55°	1994	1978	1985
60°	1896	1887	1887
65°	1770	1767	1761
70°	1567	1575	1571
75°	1319	1309	1299
80°	948	933	925
85°	497	497	482

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2089 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	3.4
10°-20°	221.2	9.7
20°-30°	336.2	14.8
30°-40°	406.3	17.9
40°-50°	421.7	18.6
50°-60°	377.1	16.6
60°-70°	274.1	12.1
70°-80°	134.8	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°	634.3	27.9
0°-40°	1040.6	45.8
0°-60°	1839.4	81.0
0°-90°	2271.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2271.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	812	812	812	812	812	
5°	814	805	811	808	813	77
15°	789	780	785	783	786	223
25°	734	726	731	729	731	338
35°	652	648	650	650	650	408
45°	549	546	546	547	547	423
55°	425	422	422	422	423	379
65°	278	279	278	278	276	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°	812.4	812.4	812.4	812.4	812.4
2.5°	816.9	807.3	813.4	809.8	815.4
5°	814.4	804.8	810.8	807.8	813.4
7.5°	809.8	800.3	806.3	803.3	807.8
10°	804.8	794.8	801.3	798.3	802.8
12.5°	798.3	788.8	794.8	792.3	796.3
15°	788.8	779.7	785.3	783.2	786.3
17.5°	777.2	768.2	773.7	772.2	774.7
20°	764.7	756.2	761.7	760.2	762.7
22.5°	750.6	741.6	746.6	745.6	747.6
25°	733.6	725.5	730.6	729.1	731.1
27.5°	715.5	708.0	712.0	712.0	713.0
30°	695.9	688.9	692.9	692.9	693.4
32.5°	674.9	669.3	671.9	672.4	672.4
35°	652.3	647.8	649.8	650.3	650.3
37.5°	628.7	624.2	625.7	626.7	626.7
40°	603.6	599.6	600.6	601.6	601.1
42.5°	576.5	573.5	574.0	575.0	575.0
45°	548.9	546.4	546.4	547.4	547.4
47.5°	520.8	518.3	517.3	518.3	518.3
50°	490.2	487.7	486.7	487.7	487.7
52.5°	458.1	455.6	455.6	455.6	456.1
55°	425.0	422.5	421.5	422.5	423.0
57.5°	389.9	388.9	387.4	387.9	386.4
60°	352.2	352.2	350.7	351.7	350.7
62.5°	315.6	316.6	315.1	315.1	314.1
65°	278.0	279.0	277.5	277.5	276.5
67.5°	239.3	240.8	238.8	238.8	237.8
70°	199.2	202.2	200.2	200.7	199.7
72.5°	163.1	164.6	162.6	162.6	161.6
75°	126.9	127.9	125.9	126.4	124.9
77.5°	91.3	92.8	90.8	91.3	90.8
80°	61.2	61.7	60.2	60.7	59.7
82.5°	35.6	36.1	35.6	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)