

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: P973740

Luminaire Tested: FLR2-22-25HE-L830-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973740
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

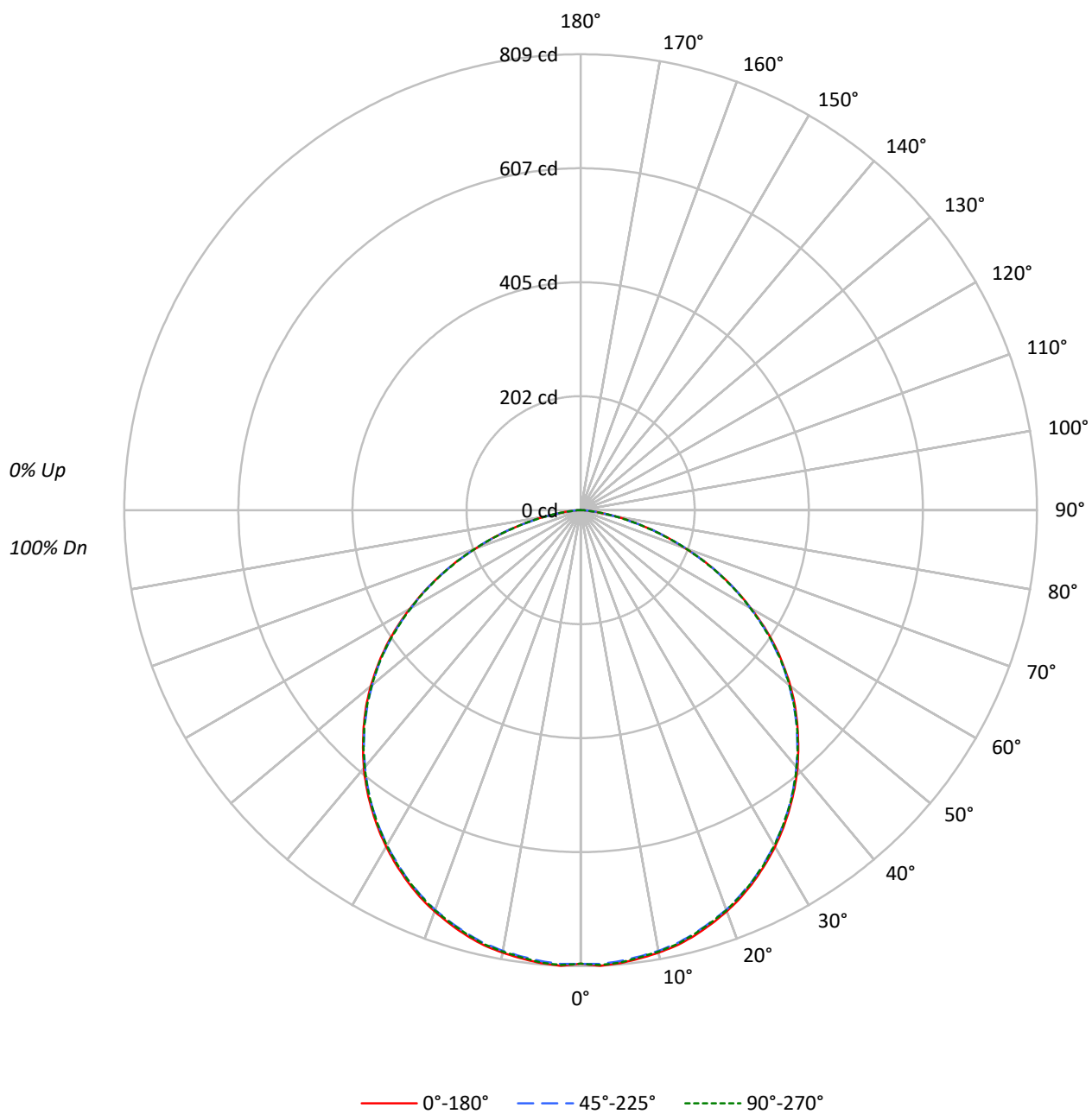
Lumens per Lamp: N/A
Luminaire Lumens: 2250.7 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	2166	2166	2166
5°	2179	2170	2177
10°	2179	2169	2173
15°	2177	2167	2170
20°	2170	2161	2164
25°	2158	2149	2151
30°	2142	2133	2135
35°	2123	2115	2116
40°	2101	2090	2092
45°	2069	2060	2064
50°	2033	2019	2023
55°	1975	1959	1966
60°	1878	1870	1870
65°	1754	1750	1744
70°	1552	1560	1556
75°	1308	1298	1287
80°	939	925	917
85°	491	491	475

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2069 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	3.4
10°-20°	219.2	9.7
20°-30°	333.0	14.8
30°-40°	402.5	17.9
40°-50°	417.8	18.6
50°-60°	373.6	16.6
60°-70°	271.6	12.1
70°-80°	133.6	5.9
80°-90°	23.2	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°	628.4	27.9
0°-40°	1030.9	45.8
0°-60°	1822.3	81.0
0°-90°	2250.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2250.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	805	805	805	805	805	
5°	807	797	803	800	806	77
15°	781	772	778	776	779	221
25°	727	719	724	722	724	335
35°	646	642	644	644	644	404
45°	544	541	541	542	542	420
55°	421	419	418	419	419	375
65°	275	276	275	275	274	272
75°	126	127	125	125	124	134
85°	16	16	16	16	15	23
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	804.8	804.8	804.8	804.8	804.8
2.5°	809.3	799.8	805.8	802.3	807.8
5°	806.8	797.3	803.3	800.3	805.8
7.5°	802.3	792.9	798.8	795.8	800.3
10°	797.3	787.4	793.9	790.9	795.3
12.5°	790.9	781.4	787.4	784.9	788.9
15°	781.4	772.5	777.9	776.0	778.9
17.5°	770.0	761.0	766.5	765.0	767.5
20°	757.6	749.1	754.6	753.1	755.6
22.5°	743.6	734.7	739.7	738.7	740.7
25°	726.7	718.8	723.8	722.3	724.3
27.5°	708.9	701.4	705.4	705.4	706.4
30°	689.5	682.5	686.5	686.5	687.0
32.5°	668.6	663.1	665.6	666.1	666.1
35°	646.2	641.7	643.7	644.2	644.2
37.5°	622.9	618.4	619.9	620.9	620.9
40°	598.0	594.0	595.0	596.0	595.5
42.5°	571.2	568.2	568.7	569.7	569.7
45°	543.8	541.3	541.3	542.3	542.3
47.5°	516.0	513.5	512.5	513.5	513.5
50°	485.7	483.2	482.2	483.2	483.2
52.5°	453.8	451.4	451.4	451.4	451.9
55°	421.0	418.6	417.6	418.6	419.0
57.5°	386.2	385.2	383.8	384.3	382.8
60°	349.0	349.0	347.5	348.5	347.5
62.5°	312.7	313.7	312.2	312.2	311.2
65°	275.4	276.4	274.9	274.9	273.9
67.5°	237.1	238.6	236.6	236.6	235.6
70°	197.3	200.3	198.3	198.8	197.8
72.5°	161.6	163.0	161.1	161.1	160.1
75°	125.8	126.8	124.8	125.3	123.8
77.5°	90.5	92.0	90.0	90.5	90.0
80°	60.6	61.1	59.7	60.1	59.2
82.5°	35.3	35.8	35.3	34.8	34.3
85°	15.9	16.4	15.9	15.9	15.4
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)