

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: P973734

Luminaire Tested: FLR2-22-25HE-L830-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973734
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

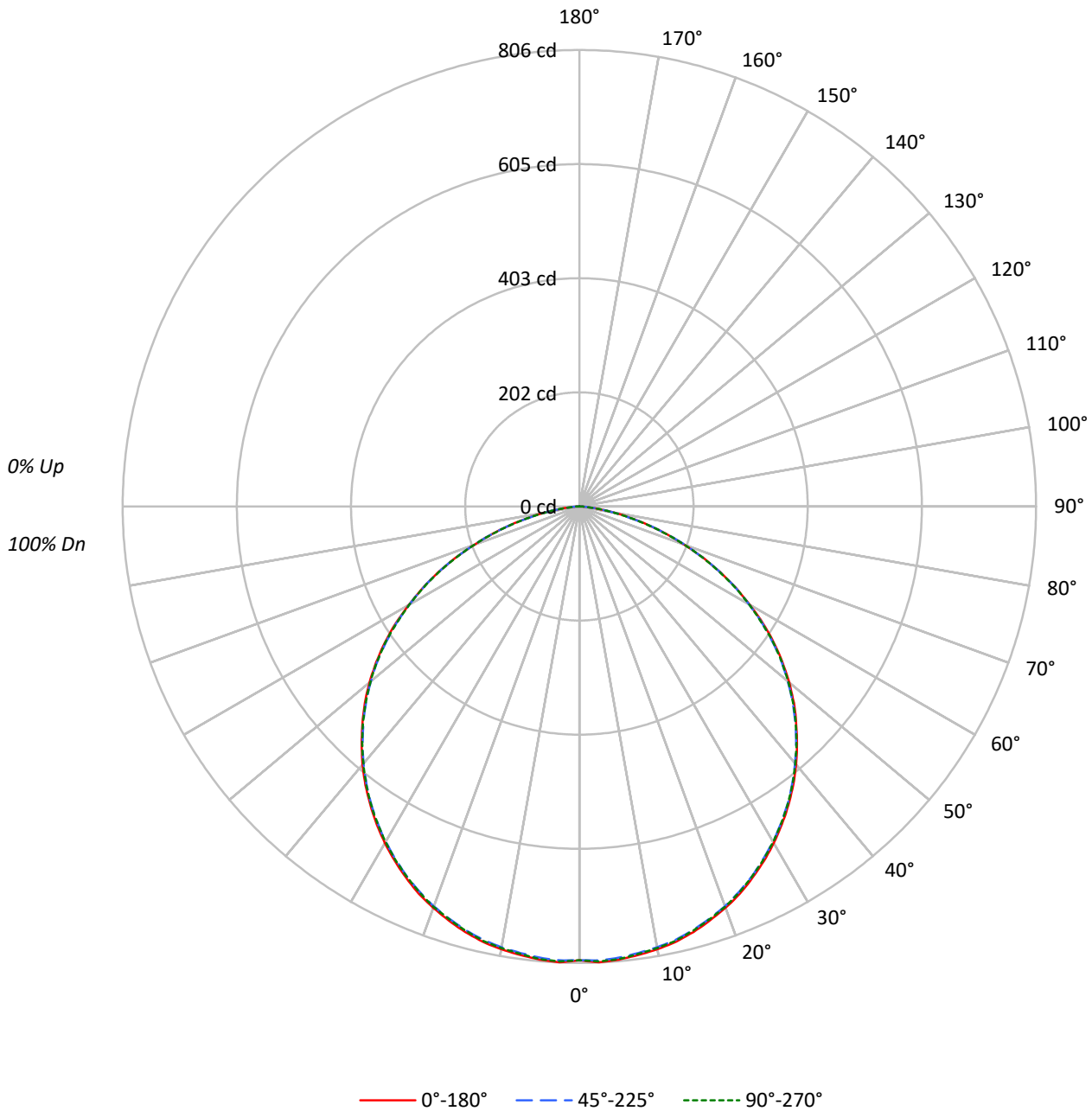
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2240.7 lumens
Efficiency: N/A
Efficacy: 116.7 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					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°	2156	2156	2156
5°	2170	2160	2167
10°	2169	2160	2164
15°	2167	2158	2160
20°	2160	2151	2154
25°	2148	2140	2141
30°	2133	2124	2125
35°	2114	2105	2107
40°	2092	2081	2083
45°	2060	2051	2055
50°	2024	2010	2014
55°	1967	1950	1957
60°	1870	1862	1862
65°	1746	1743	1736
70°	1546	1554	1550
75°	1302	1291	1281
80°	936	921	913
85°	488	488	472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2060 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.9	3.4
10°-20°	218.2	9.7
20°-30°	331.6	14.8
30°-40°	400.8	17.9
40°-50°	416.0	18.6
50°-60°	371.9	16.6
60°-70°	270.4	12.1
70°-80°	133.0	5.9
80°-90°	23.1	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°	625.6	27.9
0°-40°	1026.4	45.8
0°-60°	1814.3	81.0
0°-90°	2240.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2240.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	801	801	801	801	801	
5°	803	794	800	797	802	76
15°	778	769	774	772	776	220
25°	724	716	721	719	721	333
35°	643	639	641	641	641	403
45°	541	539	539	540	540	418
55°	419	417	416	417	417	374
65°	274	275	274	274	273	270
75°	125	126	124	125	123	133
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°	801.2	801.2	801.2	801.2	801.2
2.5°	805.7	796.3	802.2	798.8	804.2
5°	803.2	793.8	799.8	796.8	802.2
7.5°	798.8	789.4	795.3	792.3	796.8
10°	793.8	783.9	790.4	787.4	791.8
12.5°	787.4	778.0	783.9	781.4	785.4
15°	778.0	769.1	774.5	772.5	775.5
17.5°	766.6	757.7	763.1	761.7	764.1
20°	754.2	745.8	751.3	749.8	752.2
22.5°	740.4	731.5	736.4	735.4	737.4
25°	723.5	715.6	720.6	719.1	721.1
27.5°	705.7	698.3	702.3	702.3	703.3
30°	686.4	679.5	683.5	683.5	684.0
32.5°	665.6	660.2	662.7	663.2	663.2
35°	643.4	638.9	640.9	641.4	641.4
37.5°	620.1	615.7	617.1	618.1	618.1
40°	595.4	591.4	592.4	593.4	592.9
42.5°	568.6	565.7	566.2	567.2	567.2
45°	541.4	538.9	538.9	539.9	539.9
47.5°	513.7	511.2	510.2	511.2	511.2
50°	483.5	481.0	480.1	481.0	481.0
52.5°	451.8	449.4	449.4	449.4	449.9
55°	419.2	416.7	415.7	416.7	417.2
57.5°	384.5	383.5	382.1	382.6	381.1
60°	347.4	347.4	345.9	346.9	345.9
62.5°	311.3	312.3	310.8	310.8	309.8
65°	274.2	275.2	273.7	273.7	272.7
67.5°	236.1	237.6	235.6	235.6	234.6
70°	196.5	199.4	197.5	198.0	197.0
72.5°	160.8	162.3	160.3	160.3	159.4
75°	125.2	126.2	124.2	124.7	123.2
77.5°	90.1	91.6	89.6	90.1	89.6
80°	60.4	60.9	59.4	59.9	58.9
82.5°	35.1	35.6	35.1	34.6	34.1
85°	15.8	16.3	15.8	15.8	15.3
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)