

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: P974544

Luminaire Tested: FLR2-24-65HE-L830-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974544
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: FLR2-24-65HE-L830-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

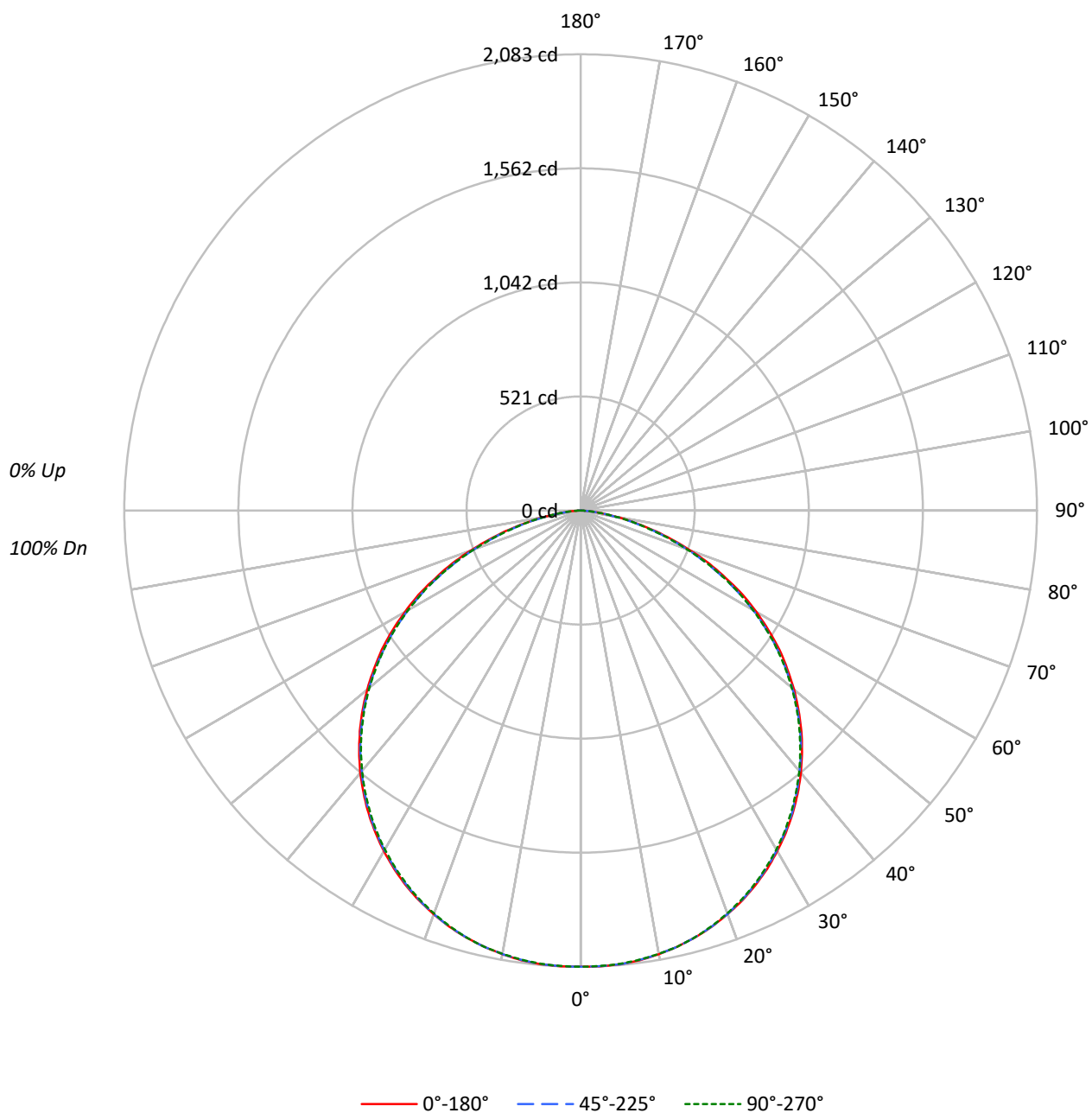
Lumens per Lamp: N/A
Luminaire Lumens: 5887.6 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.9
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°	2803	2803	2803
5°	2808	2808	2806
10°	2810	2809	2808
15°	2811	2810	2810
20°	2808	2807	2803
25°	2803	2797	2793
30°	2790	2782	2777
35°	2772	2765	2755
40°	2748	2731	2727
45°	2712	2697	2688
50°	2661	2641	2633
55°	2598	2562	2558
60°	2490	2446	2446
65°	2330	2275	2282
70°	2096	2032	2026
75°	1760	1690	1682
80°	1285	1222	1274
85°	727	670	681

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2712 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.7	3.4
10°-20°	569.6	9.7
20°-30°	868.5	14.8
30°-40°	1052.3	17.9
40°-50°	1093.0	18.6
50°-60°	977.8	16.6
60°-70°	712.6	12.1
70°-80°	352.9	6.0
80°-90°	63.1	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°	1635.9	27.8
0°-40°	2688.1	45.7
0°-60°	4758.9	80.8
0°-90°	5887.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5887.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2083	2083	2083	2083	2083	
5°	2079	2080	2079	2079	2078	198
15°	2018	2017	2017	2019	2017	570
25°	1888	1886	1884	1884	1881	870
35°	1688	1686	1683	1680	1677	1056
45°	1425	1422	1417	1414	1413	1098
55°	1108	1100	1092	1092	1090	987
65°	732	726	715	718	717	725
75°	339	333	325	331	324	361
85°	47	43	43	44	44	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2083.1	2083.1	2083.1	2083.1	2083.1
2.5°	2083.1	2082.4	2082.4	2083.1	2081.6
5°	2079.4	2080.1	2079.4	2079.4	2077.9
7.5°	2071.2	2070.4	2069.7	2070.4	2068.2
10°	2057.0	2057.0	2056.2	2057.0	2055.5
12.5°	2039.8	2039.8	2039.8	2040.5	2039.8
15°	2018.1	2017.4	2017.4	2018.9	2017.4
17.5°	1992.7	1991.9	1991.9	1991.2	1989.7
20°	1961.3	1961.3	1960.6	1959.8	1957.6
22.5°	1927.7	1926.9	1924.7	1924.7	1921.7
25°	1888.1	1885.8	1884.3	1883.6	1881.3
27.5°	1844.7	1841.7	1839.5	1838.0	1835.7
30°	1796.1	1793.1	1790.9	1788.6	1787.1
32.5°	1743.8	1742.3	1738.6	1737.8	1734.8
35°	1687.7	1685.5	1683.3	1680.3	1677.3
37.5°	1627.9	1625.7	1620.5	1619.0	1616.7
40°	1564.4	1561.4	1554.7	1554.7	1552.4
42.5°	1496.4	1493.4	1488.9	1485.9	1484.4
45°	1425.4	1422.4	1417.2	1414.2	1412.7
47.5°	1349.9	1347.6	1341.7	1339.4	1337.2
50°	1271.4	1268.4	1261.7	1260.2	1258.0
52.5°	1189.2	1187.7	1178.7	1178.0	1175.7
55°	1107.7	1099.5	1092.0	1092.0	1090.5
57.5°	1018.0	1012.0	1002.3	1002.3	1000.8
60°	925.3	920.1	908.9	910.4	908.9
62.5°	834.9	823.7	813.2	817.7	814.0
65°	731.8	725.8	714.6	717.6	716.8
67.5°	637.6	626.4	615.9	621.9	618.9
70°	532.9	527.0	516.5	522.5	515.0
72.5°	434.3	429.0	418.6	425.3	417.8
75°	338.6	333.4	325.1	331.1	323.6
77.5°	248.2	244.4	236.9	242.9	244.4
80°	165.9	161.4	157.7	162.9	164.4
82.5°	97.2	94.2	92.7	93.4	97.2
85°	47.1	43.4	43.4	44.1	44.1
87.5°	12.7	11.2	12.7	13.5	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)