

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: P974566

Luminaire Tested: FLR2-24-65HE-L830-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974566
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

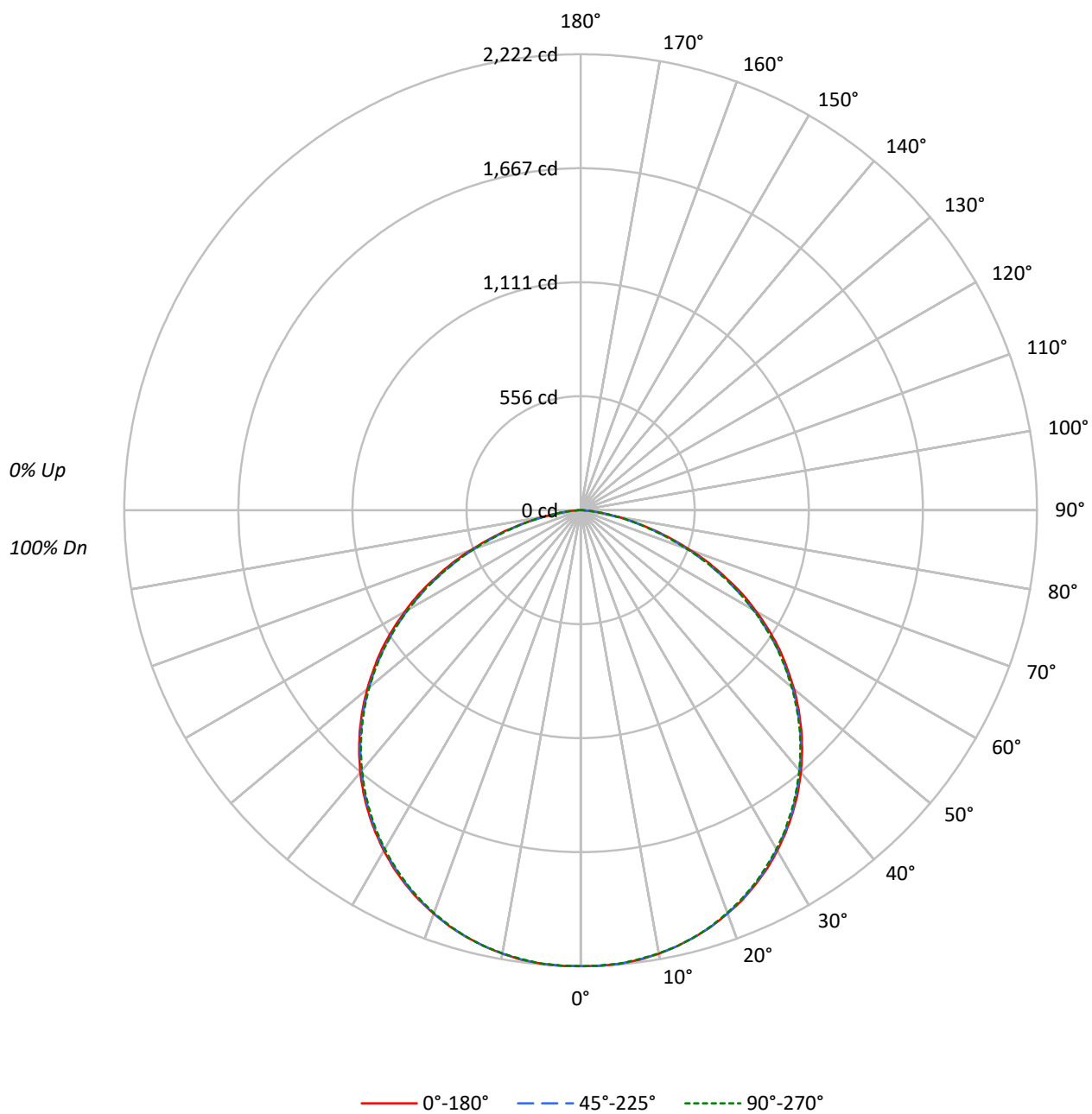
Lumens per Lamp: N/A
Luminaire Lumens: 6281.6 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2990	2990	2990
5°	2996	2996	2994
10°	2998	2997	2996
15°	2999	2998	2998
20°	2996	2995	2990
25°	2991	2985	2980
30°	2977	2969	2962
35°	2958	2950	2939
40°	2932	2913	2909
45°	2894	2877	2868
50°	2839	2818	2809
55°	2772	2733	2729
60°	2657	2609	2609
65°	2486	2427	2435
70°	2237	2168	2161
75°	1878	1803	1795
80°	1371	1304	1359
85°	775	715	727

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2894 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.0	3.4
10°-20°	607.7	9.7
20°-30°	926.6	14.8
30°-40°	1122.7	17.9
40°-50°	1166.2	18.6
50°-60°	1043.2	16.6
60°-70°	760.3	12.1
70°-80°	376.5	6.0
80°-90°	67.3	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°	1745.3	27.8
0°-40°	2868.0	45.7
0°-60°	5077.4	80.8
0°-90°	6281.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6281.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2222	2222	2222	2222	2222	
5°	2218	2219	2218	2218	2217	211
15°	2153	2152	2152	2154	2152	608
25°	2014	2012	2010	2010	2007	928
35°	1801	1798	1796	1793	1790	1126
45°	1521	1518	1512	1509	1507	1172
55°	1182	1173	1165	1165	1164	1053
65°	781	774	762	766	765	774
75°	361	356	347	353	345	385
85°	50	46	46	47	47	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2222.5	2222.5	2222.5	2222.5	2222.5
2.5°	2222.5	2221.7	2221.7	2222.5	2220.9
5°	2218.5	2219.3	2218.5	2218.5	2216.9
7.5°	2209.8	2209.0	2208.2	2209.0	2206.6
10°	2194.6	2194.6	2193.8	2194.6	2193.0
12.5°	2176.3	2176.3	2176.3	2177.1	2176.3
15°	2153.1	2152.3	2152.3	2153.9	2152.3
17.5°	2126.0	2125.2	2125.2	2124.4	2122.8
20°	2092.5	2092.5	2091.7	2090.9	2088.5
22.5°	2056.6	2055.9	2053.5	2053.5	2050.3
25°	2014.4	2012.0	2010.4	2009.6	2007.2
27.5°	1968.1	1964.9	1962.5	1961.0	1958.6
30°	1916.3	1913.1	1910.7	1908.3	1906.7
32.5°	1860.5	1858.9	1854.9	1854.1	1850.9
35°	1800.7	1798.3	1795.9	1792.7	1789.5
37.5°	1736.9	1734.5	1728.9	1727.3	1724.9
40°	1669.1	1665.9	1658.7	1658.7	1656.3
42.5°	1596.5	1593.3	1588.5	1585.3	1583.8
45°	1520.8	1517.6	1512.0	1508.8	1507.2
47.5°	1440.2	1437.8	1431.4	1429.0	1426.7
50°	1356.5	1353.3	1346.1	1344.5	1342.1
52.5°	1268.8	1267.2	1257.6	1256.8	1254.4
55°	1181.8	1173.1	1165.1	1165.1	1163.5
57.5°	1086.1	1079.8	1069.4	1069.4	1067.8
60°	987.3	981.7	969.7	971.3	969.7
62.5°	890.8	878.8	867.6	872.4	868.4
65°	780.7	774.3	762.4	765.6	764.8
67.5°	680.2	668.3	657.1	663.5	660.3
70°	568.6	562.2	551.0	557.4	549.4
72.5°	463.3	457.7	446.6	453.8	445.8
75°	361.2	355.7	346.9	353.3	345.3
77.5°	264.8	260.8	252.8	259.2	260.8
80°	177.0	172.3	168.3	173.8	175.4
82.5°	103.7	100.5	98.9	99.7	103.7
85°	50.2	46.3	46.3	47.1	47.1
87.5°	13.6	12.0	13.6	14.4	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)