

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: P974788

Luminaire Tested: FLR2-24-80HE-L935-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974788
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: FLR2-24-80HE-L935-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

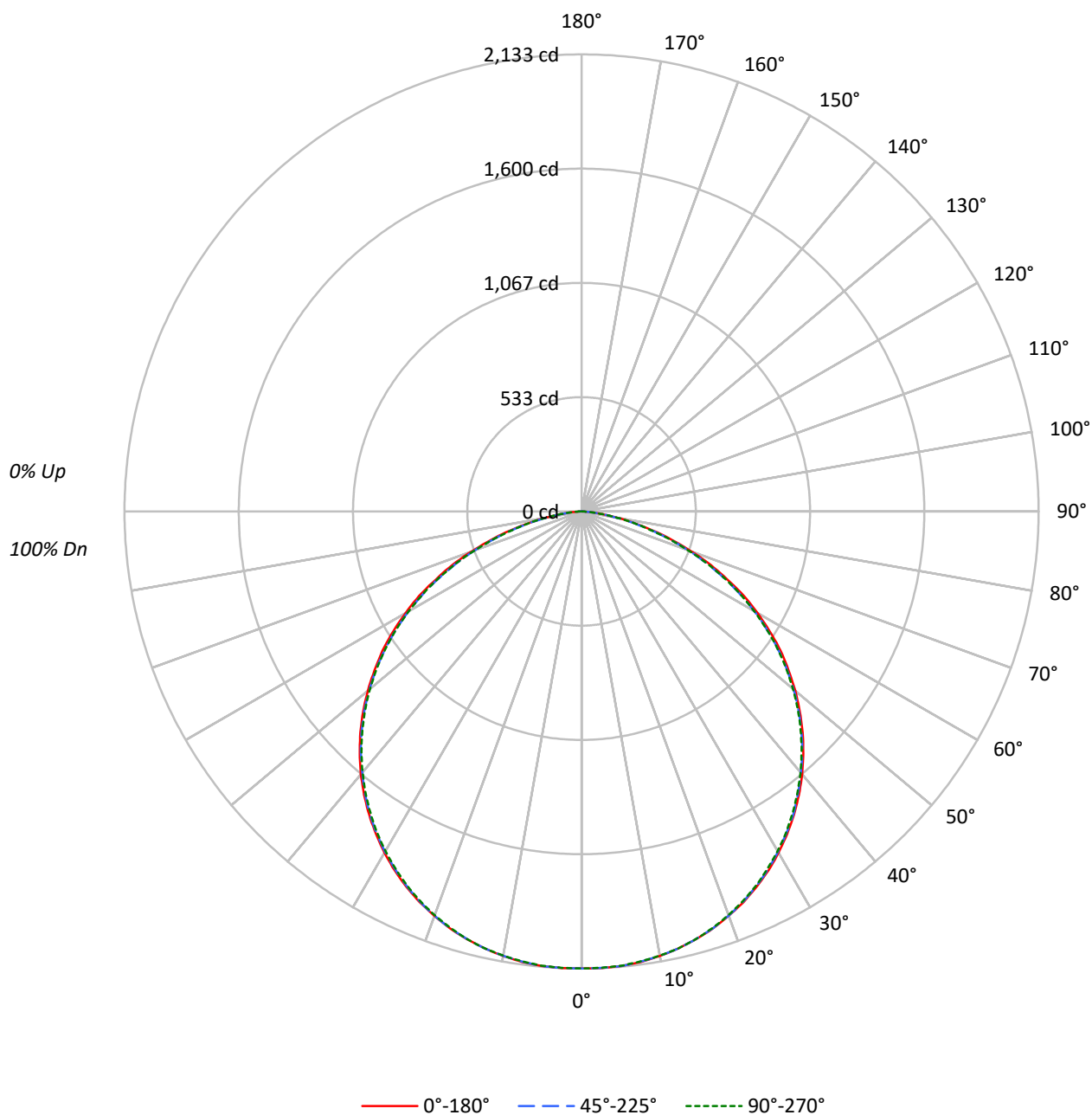
Lumens per Lamp: N/A
Luminaire Lumens: 6029.4 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 63.5
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°	2870	2870	2870
5°	2876	2876	2874
10°	2878	2877	2876
15°	2879	2878	2878
20°	2876	2875	2870
25°	2870	2865	2860
30°	2858	2849	2843
35°	2839	2831	2821
40°	2814	2796	2792
45°	2778	2762	2753
50°	2725	2705	2697
55°	2661	2623	2620
60°	2550	2505	2505
65°	2386	2330	2337
70°	2147	2081	2075
75°	1802	1731	1723
80°	1316	1251	1305
85°	744	685	698

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2778 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.5	3.4
10°-20°	583.4	9.7
20°-30°	889.4	14.8
30°-40°	1077.6	17.9
40°-50°	1119.3	18.6
50°-60°	1001.3	16.6
60°-70°	729.8	12.1
70°-80°	361.4	6.0
80°-90°	64.6	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°	1675.3	27.8
0°-40°	2752.9	45.7
0°-60°	4873.6	80.8
0°-90°	6029.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6029.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2133	2133	2133	2133	2133	
5°	2130	2130	2130	2130	2128	203
15°	2067	2066	2066	2068	2066	584
25°	1934	1931	1930	1929	1927	891
35°	1728	1726	1724	1721	1718	1081
45°	1460	1457	1451	1448	1447	1125
55°	1134	1126	1118	1118	1117	1011
65°	749	743	732	735	734	743
75°	347	341	333	339	331	370
85°	48	44	44	45	45	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2133.3	2133.3	2133.3	2133.3	2133.3
2.5°	2133.3	2132.5	2132.5	2133.3	2131.8
5°	2129.5	2130.2	2129.5	2129.5	2128.0
7.5°	2121.1	2120.3	2119.5	2120.3	2118.0
10°	2106.5	2106.5	2105.8	2106.5	2105.0
12.5°	2088.9	2088.9	2088.9	2089.7	2088.9
15°	2066.7	2065.9	2065.9	2067.5	2065.9
17.5°	2040.7	2039.9	2039.9	2039.2	2037.6
20°	2008.5	2008.5	2007.8	2007.0	2004.7
22.5°	1974.1	1973.3	1971.0	1971.0	1968.0
25°	1933.5	1931.2	1929.7	1928.9	1926.6
27.5°	1889.1	1886.1	1883.8	1882.2	1879.9
30°	1839.4	1836.3	1834.0	1831.7	1830.2
32.5°	1785.8	1784.3	1780.4	1779.7	1776.6
35°	1728.4	1726.1	1723.8	1720.7	1717.7
37.5°	1667.1	1664.9	1659.5	1658.0	1655.7
40°	1602.1	1599.0	1592.1	1592.1	1589.8
42.5°	1532.4	1529.4	1524.8	1521.7	1520.2
45°	1459.7	1456.7	1451.3	1448.2	1446.7
47.5°	1382.4	1380.1	1374.0	1371.7	1369.4
50°	1302.0	1299.0	1292.1	1290.5	1288.3
52.5°	1217.8	1216.3	1207.1	1206.3	1204.1
55°	1134.4	1126.0	1118.3	1118.3	1116.8
57.5°	1042.5	1036.4	1026.5	1026.5	1024.9
60°	947.6	942.3	930.8	932.3	930.8
62.5°	855.0	843.5	832.8	837.4	833.6
65°	749.4	743.3	731.8	734.8	734.1
67.5°	652.9	641.4	630.7	636.9	633.8
70°	545.8	539.6	528.9	535.0	527.4
72.5°	444.7	439.4	428.7	435.5	427.9
75°	346.7	341.4	333.0	339.1	331.4
77.5°	254.1	250.3	242.6	248.8	250.3
80°	169.9	165.3	161.5	166.9	168.4
82.5°	99.5	96.4	94.9	95.7	99.5
85°	48.2	44.4	44.4	45.2	45.2
87.5°	13.0	11.5	13.0	13.8	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)