

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: P974601

Luminaire Tested: FLR2-24-80HE-L930-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974601
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-L930-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

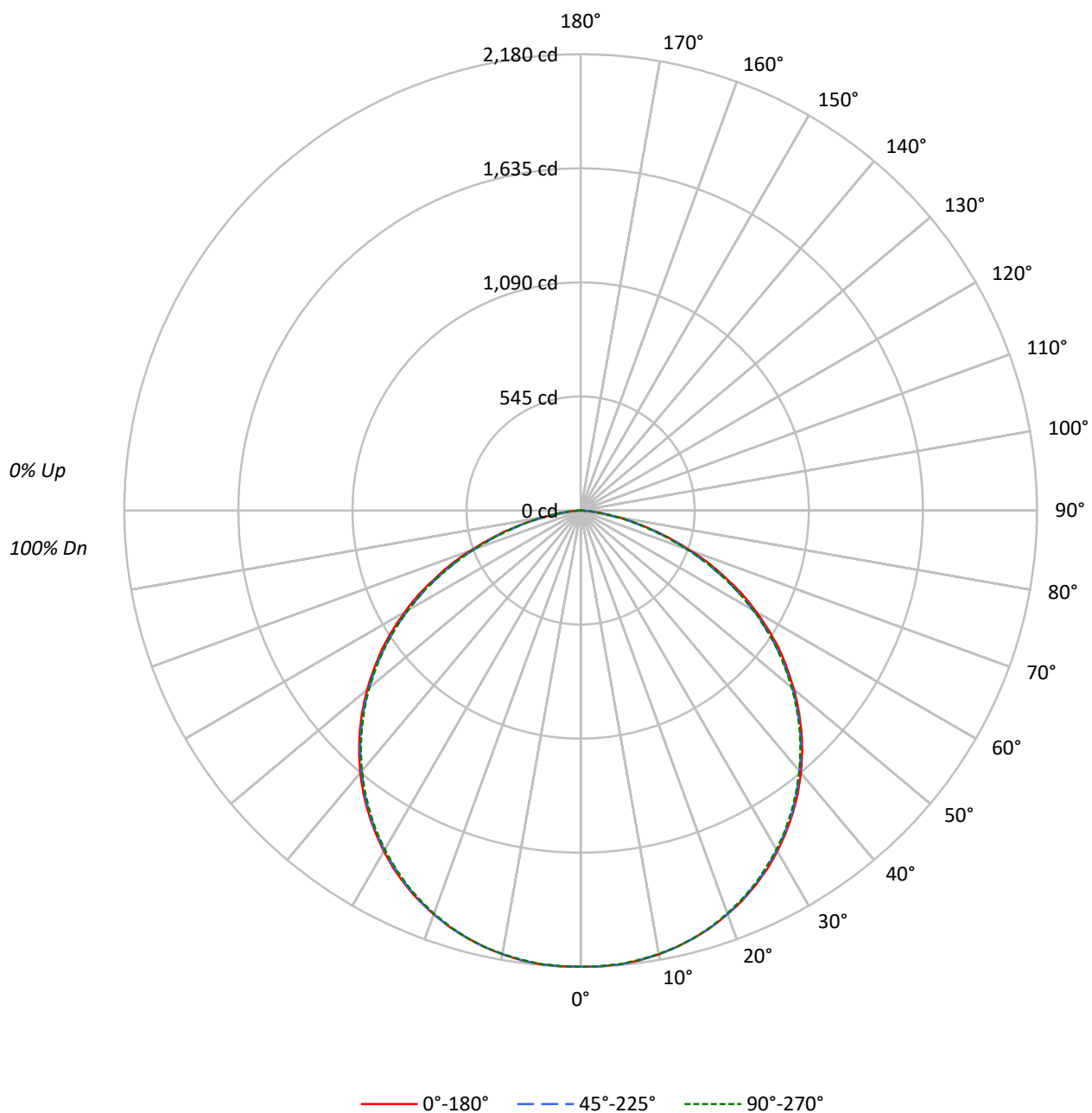
Lumens per Lamp: N/A
Luminaire Lumens: 6162.6 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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		
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27		
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2934	2934	2934
5°	2940	2940	2938
10°	2942	2941	2939
15°	2942	2941	2941
20°	2939	2938	2934
25°	2934	2928	2923
30°	2921	2912	2906
35°	2902	2894	2884
40°	2876	2858	2854
45°	2839	2823	2814
50°	2786	2764	2756
55°	2720	2681	2678
60°	2606	2560	2560
65°	2438	2381	2389
70°	2194	2127	2120
75°	1842	1769	1761
80°	1346	1279	1333
85°	761	701	713

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2839 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.0	3.4
10°-20°	596.2	9.7
20°-30°	909.1	14.8
30°-40°	1101.4	17.9
40°-50°	1144.1	18.6
50°-60°	1023.5	16.6
60°-70°	745.9	12.1
70°-80°	369.4	6.0
80°-90°	66.0	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°	1712.3	27.8
0°-40°	2813.7	45.7
0°-60°	4981.2	80.8
0°-90°	6162.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6162.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2180	2180	2180	2180	2180	
5°	2176	2177	2176	2176	2175	207
15°	2112	2112	2112	2113	2112	596
25°	1976	1974	1972	1972	1969	911
35°	1767	1764	1762	1759	1756	1105
45°	1492	1489	1483	1480	1479	1150
55°	1160	1151	1143	1143	1142	1033
65°	766	760	748	751	750	759
75°	354	349	340	347	339	378
85°	49	45	45	46	46	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2180.4	2180.4	2180.4	2180.4	2180.4
2.5°	2180.4	2179.7	2179.7	2180.4	2178.9
5°	2176.5	2177.3	2176.5	2176.5	2175.0
7.5°	2167.9	2167.1	2166.4	2167.1	2164.8
10°	2153.1	2153.1	2152.3	2153.1	2151.5
12.5°	2135.1	2135.1	2135.1	2135.8	2135.1
15°	2112.4	2111.6	2111.6	2113.2	2111.6
17.5°	2085.8	2085.0	2085.0	2084.2	2082.6
20°	2052.9	2052.9	2052.1	2051.3	2049.0
22.5°	2017.7	2016.9	2014.6	2014.6	2011.4
25°	1976.2	1973.9	1972.3	1971.5	1969.2
27.5°	1930.9	1927.7	1925.4	1923.8	1921.5
30°	1880.0	1876.9	1874.5	1872.2	1870.6
32.5°	1825.2	1823.7	1819.8	1819.0	1815.9
35°	1766.6	1764.2	1761.9	1758.7	1755.6
37.5°	1704.0	1701.6	1696.2	1694.6	1692.2
40°	1637.5	1634.3	1627.3	1627.3	1625.0
42.5°	1566.3	1563.2	1558.5	1555.3	1553.8
45°	1492.0	1488.8	1483.4	1480.2	1478.7
47.5°	1412.9	1410.6	1404.3	1402.0	1399.6
50°	1330.8	1327.7	1320.6	1319.1	1316.7
52.5°	1244.7	1243.2	1233.8	1233.0	1230.7
55°	1159.5	1150.9	1143.0	1143.0	1141.5
57.5°	1065.6	1059.3	1049.1	1049.1	1047.6
60°	968.6	963.1	951.3	952.9	951.3
62.5°	873.9	862.2	851.2	855.9	852.0
65°	765.9	759.7	747.9	751.1	750.3
67.5°	667.4	655.6	644.7	650.9	647.8
70°	557.8	551.6	540.6	546.9	539.0
72.5°	454.6	449.1	438.1	445.2	437.3
75°	354.4	348.9	340.3	346.6	338.8
77.5°	259.7	255.8	248.0	254.3	255.8
80°	173.7	169.0	165.1	170.6	172.1
82.5°	101.7	98.6	97.0	97.8	101.7
85°	49.3	45.4	45.4	46.2	46.2
87.5°	13.3	11.7	13.3	14.1	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)