

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: P973918

Luminaire Tested: FLR2-22-60HE-L840-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973918
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: FLR2-22-60HE-L840-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

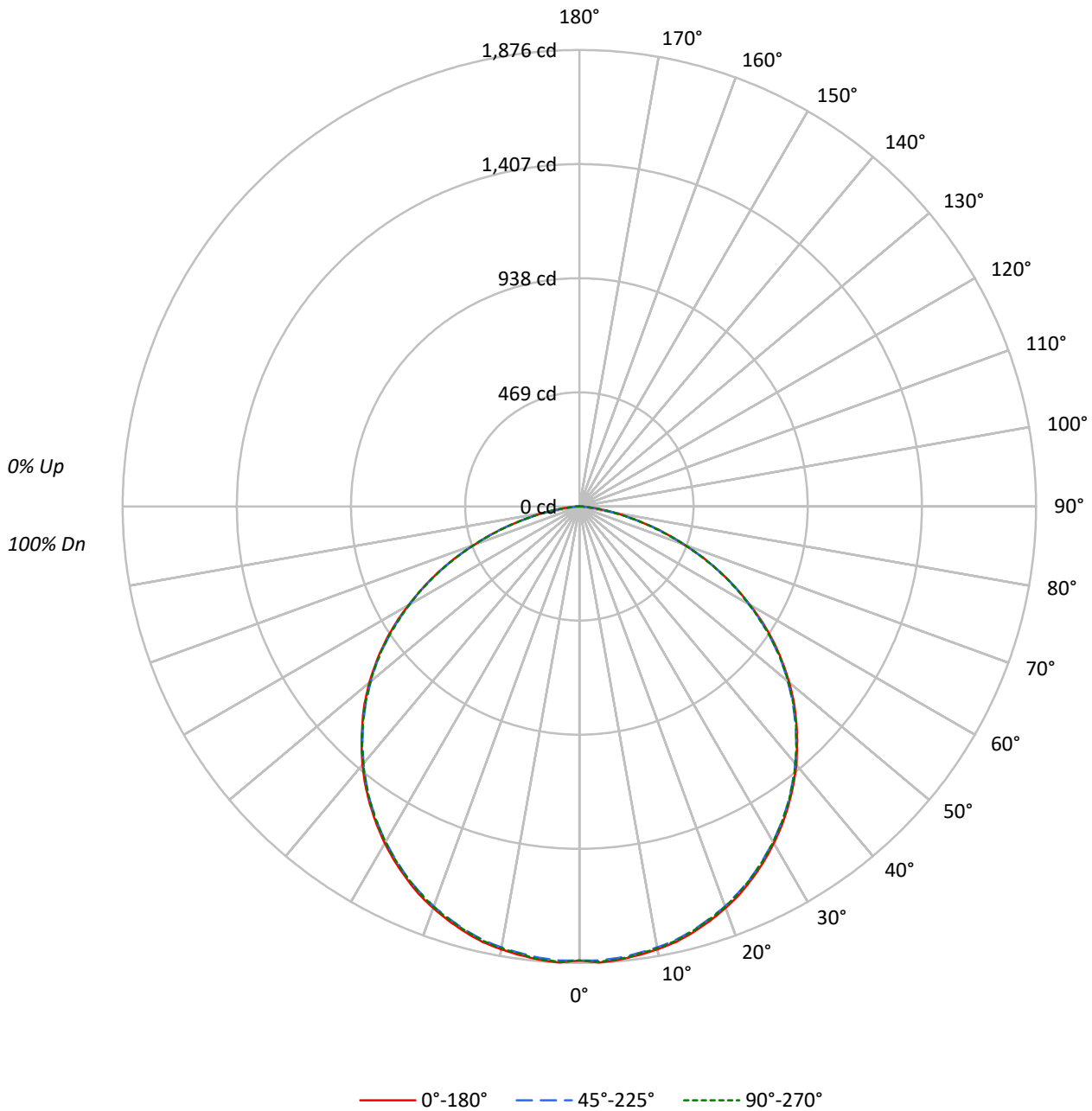
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5217.5 lumens
Efficiency: N/A
Efficacy: 110.1 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): 47.4
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				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	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	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5021	5021	5021
5°	5052	5031	5046
10°	5051	5029	5038
15°	5047	5024	5031
20°	5029	5009	5016
25°	5002	4982	4985
30°	4967	4945	4949
35°	4921	4902	4906
40°	4870	4846	4850
45°	4798	4776	4785
50°	4713	4680	4689
55°	4579	4541	4558
60°	4354	4335	4335
65°	4065	4058	4043
70°	3600	3618	3609
75°	3032	3007	2983
80°	2179	2143	2125
85°	1139	1139	1102

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4798 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	3.4
10°-20°	508.1	9.7
20°-30°	772.1	14.8
30°-40°	933.2	17.9
40°-50°	968.6	18.6
50°-60°	866.0	16.6
60°-70°	629.6	12.1
70°-80°	309.6	5.9
80°-90°	53.7	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°	1456.8	27.9
0°-40°	2390.0	45.8
0°-60°	4224.6	81.0
0°-90°	5217.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5217.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1866	1866	1866	1866	1866	
5°	1870	1848	1862	1855	1868	178
15°	1812	1791	1804	1799	1806	511
25°	1685	1666	1678	1674	1679	777
35°	1498	1488	1492	1494	1494	937
45°	1261	1255	1255	1257	1257	973
55°	976	970	968	970	972	870
65°	638	641	637	637	635	630
75°	292	294	289	290	287	309
85°	37	38	37	37	36	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1865.7	1865.7	1865.7	1865.7	1865.7
2.5°	1876.1	1854.2	1868.0	1860.0	1872.6
5°	1870.3	1848.4	1862.3	1855.3	1868.0
7.5°	1860.0	1838.1	1851.9	1845.0	1855.3
10°	1848.4	1825.4	1840.4	1833.4	1843.8
12.5°	1833.4	1811.6	1825.4	1819.6	1828.8
15°	1811.6	1790.8	1803.5	1798.9	1805.8
17.5°	1785.0	1764.3	1777.0	1773.5	1779.3
20°	1756.2	1736.6	1749.3	1745.9	1751.6
22.5°	1724.0	1703.2	1714.8	1712.4	1717.1
25°	1684.8	1666.4	1677.9	1674.4	1679.0
27.5°	1643.3	1626.0	1635.2	1635.2	1637.5
30°	1598.4	1582.2	1591.4	1591.4	1592.6
32.5°	1550.0	1537.3	1543.0	1544.2	1544.2
35°	1498.1	1487.7	1492.3	1493.5	1493.5
37.5°	1443.9	1433.6	1437.0	1439.3	1439.3
40°	1386.3	1377.1	1379.4	1381.7	1380.6
42.5°	1324.1	1317.2	1318.3	1320.6	1320.6
45°	1260.7	1254.9	1254.9	1257.3	1257.3
47.5°	1196.2	1190.4	1188.1	1190.4	1190.4
50°	1125.9	1120.1	1117.8	1120.1	1120.1
52.5°	1052.1	1046.4	1046.4	1046.4	1047.5
55°	976.1	970.3	968.0	970.3	971.5
57.5°	895.4	893.1	889.6	890.8	887.3
60°	809.0	809.0	805.5	807.8	805.5
62.5°	724.9	727.2	723.7	723.7	721.4
65°	638.4	640.7	637.3	637.3	635.0
67.5°	549.7	553.1	548.5	548.5	546.2
70°	457.5	464.4	459.8	461.0	458.7
72.5°	374.5	378.0	373.4	373.4	371.1
75°	291.6	293.9	289.2	290.4	286.9
77.5°	209.7	213.2	208.6	209.7	208.6
80°	140.6	141.7	138.3	139.4	137.1
82.5°	81.8	83.0	81.8	80.7	79.5
85°	36.9	38.0	36.9	36.9	35.7
87.5°	9.2	9.2	9.2	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)