

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: P974002

Luminaire Tested: FLR2-22-60HE-L850-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974002  
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-L850-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

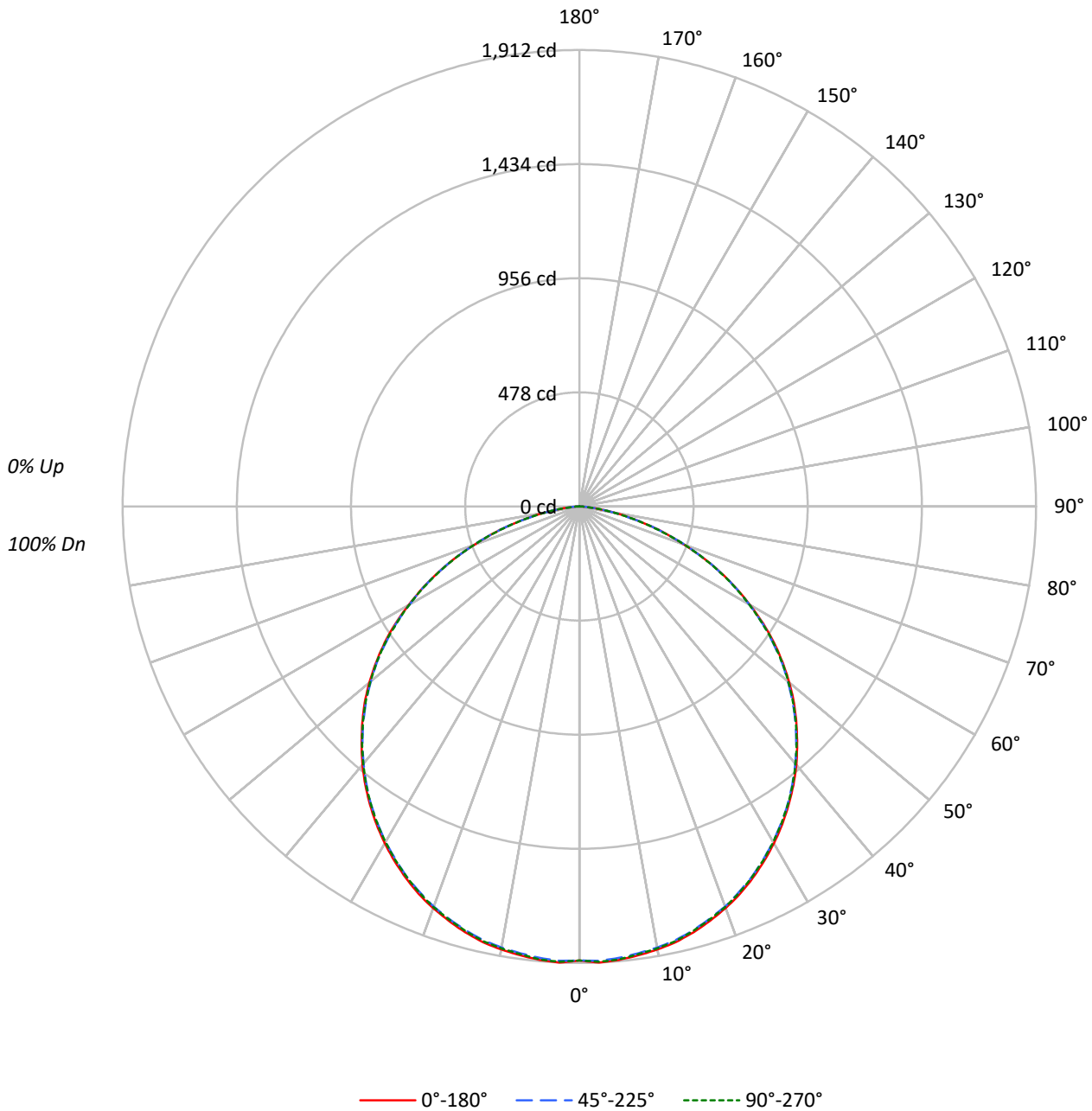
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5318.8 lumens  
Efficiency: N/A  
Efficacy: 112.2 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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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				100															
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85				85															
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51				51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44				44															
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39				39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34				34															
8	61	47	39	33	59	47	39	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	40	34	29	27				27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25				25															

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5118	5118	5118
5°	5150	5128	5144
10°	5149	5126	5136
15°	5145	5122	5129
20°	5127	5107	5113
25°	5100	5079	5082
30°	5063	5041	5045
35°	5017	4998	5002
40°	4964	4940	4944
45°	4891	4869	4878
50°	4805	4770	4780
55°	4668	4630	4646
60°	4439	4420	4420
65°	4144	4136	4122
70°	3670	3688	3679
75°	3090	3066	3041
80°	2221	2185	2166
85°	1161	1161	1124

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4891 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.1	3.4
10°-20°	517.9	9.7
20°-30°	787.1	14.8
30°-40°	951.3	17.9
40°-50°	987.4	18.6
50°-60°	882.8	16.6
60°-70°	641.9	12.1
70°-80°	315.6	5.9
80°-90°	54.7	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°	1485.1	27.9
0°-40°	2436.4	45.8
0°-60°	4306.6	81.0
0°-90°	5318.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5318.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1902	1902	1902	1902	1902	
5°	1907	1884	1898	1891	1904	181
15°	1847	1826	1838	1834	1841	521
25°	1718	1699	1710	1707	1712	792
35°	1527	1517	1521	1522	1522	955
45°	1285	1279	1279	1282	1282	991
55°	995	989	987	989	990	887
65°	651	653	650	650	647	642
75°	297	300	295	296	292	315
85°	38	39	38	38	36	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1901.9	1901.9	1901.9	1901.9	1901.9
2.5°	1912.5	1890.2	1904.3	1896.1	1909.0
5°	1906.6	1884.3	1898.4	1891.4	1904.3
7.5°	1896.1	1873.7	1887.8	1880.8	1891.4
10°	1884.3	1860.8	1876.1	1869.0	1879.6
12.5°	1869.0	1846.7	1860.8	1855.0	1864.3
15°	1846.7	1825.6	1838.5	1833.8	1840.9
17.5°	1819.7	1798.6	1811.5	1808.0	1813.8
20°	1790.3	1770.4	1783.3	1779.8	1785.6
22.5°	1757.4	1736.3	1748.0	1745.7	1750.4
25°	1717.5	1698.7	1710.5	1706.9	1711.6
27.5°	1675.2	1657.6	1667.0	1667.0	1669.3
30°	1629.4	1613.0	1622.3	1622.3	1623.5
32.5°	1580.1	1567.1	1573.0	1574.2	1574.2
35°	1527.2	1516.6	1521.3	1522.5	1522.5
37.5°	1472.0	1461.4	1464.9	1467.3	1467.3
40°	1413.2	1403.8	1406.2	1408.5	1407.4
42.5°	1349.8	1342.8	1343.9	1346.3	1346.3
45°	1285.2	1279.3	1279.3	1281.7	1281.7
47.5°	1219.4	1213.5	1211.2	1213.5	1213.5
50°	1147.7	1141.9	1139.5	1141.9	1141.9
52.5°	1072.6	1066.7	1066.7	1066.7	1067.9
55°	995.0	989.2	986.8	989.2	990.3
57.5°	912.8	910.4	906.9	908.1	904.6
60°	824.7	824.7	821.2	823.5	821.2
62.5°	738.9	741.3	737.8	737.8	735.4
65°	650.8	653.2	649.6	649.6	647.3
67.5°	560.4	563.9	559.2	559.2	556.8
70°	466.4	473.4	468.7	469.9	467.6
72.5°	381.8	385.3	380.6	380.6	378.3
75°	297.2	299.6	294.9	296.0	292.5
77.5°	213.8	217.3	212.6	213.8	212.6
80°	143.3	144.5	141.0	142.1	139.8
82.5°	83.4	84.6	83.4	82.2	81.1
85°	37.6	38.8	37.6	37.6	36.4
87.5°	9.4	9.4	9.4	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)