

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: P973816

Luminaire Tested: FLR2-22-60HE-L835-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973816
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-L835-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

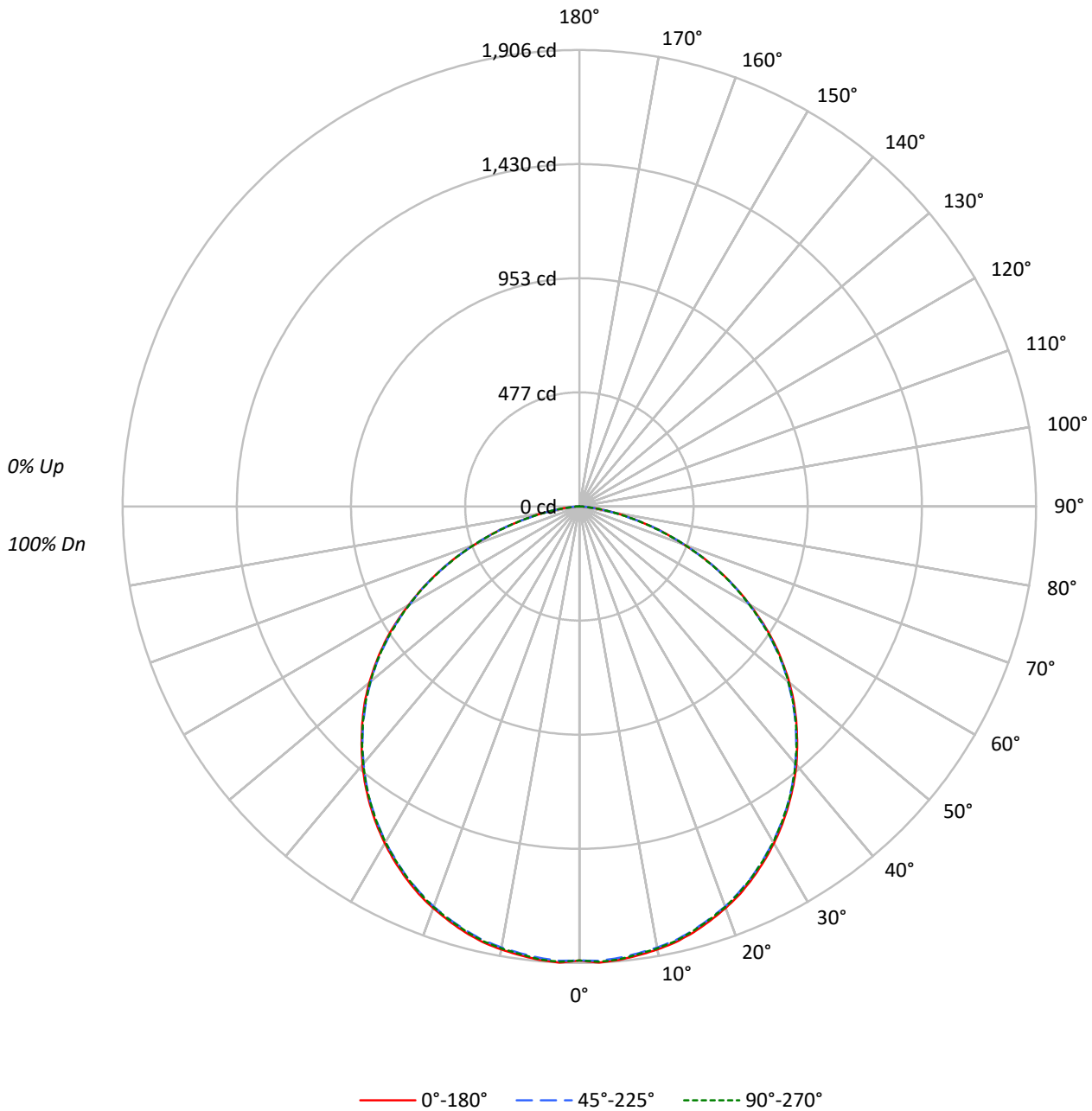
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5302.2 lumens
Efficiency: N/A
Efficacy: 111.9 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 (A_{in}): 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°	5102	5102	5102
5°	5134	5112	5128
10°	5133	5110	5120
15°	5129	5106	5112
20°	5111	5091	5098
25°	5084	5063	5066
30°	5047	5025	5029
35°	5001	4982	4986
40°	4949	4924	4928
45°	4876	4853	4862
50°	4790	4756	4765
55°	4654	4615	4632
60°	4425	4406	4406
65°	4131	4124	4109
70°	3658	3677	3667
75°	3081	3056	3032
80°	2214	2177	2160
85°	1158	1158	1121

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4876 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.5	3.4
10°-20°	516.3	9.7
20°-30°	784.6	14.8
30°-40°	948.4	17.9
40°-50°	984.3	18.6
50°-60°	880.0	16.6
60°-70°	639.8	12.1
70°-80°	314.6	5.9
80°-90°	54.6	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°	1480.4	27.9
0°-40°	2428.8	45.8
0°-60°	4293.2	81.0
0°-90°	5302.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5302.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1896	1896	1896	1896	1896	
5°	1901	1878	1892	1886	1898	181
15°	1841	1820	1833	1828	1835	519
25°	1712	1693	1705	1702	1706	789
35°	1522	1512	1517	1518	1518	952
45°	1281	1275	1275	1278	1278	988
55°	992	986	984	986	987	884
65°	649	651	648	648	645	640
75°	296	299	294	295	292	314
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°	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1906.5	1884.3	1898.3	1890.1	1903.0
5°	1900.7	1878.4	1892.5	1885.5	1898.3
7.5°	1890.1	1867.9	1881.9	1874.9	1885.5
10°	1878.4	1855.0	1870.2	1863.2	1873.7
12.5°	1863.2	1841.0	1855.0	1849.2	1858.5
15°	1841.0	1819.9	1832.8	1828.1	1835.1
17.5°	1814.0	1792.9	1805.8	1802.3	1808.2
20°	1784.7	1764.8	1777.7	1774.2	1780.1
22.5°	1752.0	1730.9	1742.6	1740.2	1744.9
25°	1712.1	1693.4	1705.1	1701.6	1706.3
27.5°	1670.0	1652.4	1661.8	1661.8	1664.1
30°	1624.3	1607.9	1617.3	1617.3	1618.5
32.5°	1575.1	1562.2	1568.1	1569.3	1569.3
35°	1522.4	1511.9	1516.6	1517.7	1517.7
37.5°	1467.4	1456.8	1460.4	1462.7	1462.7
40°	1408.8	1399.5	1401.8	1404.1	1403.0
42.5°	1345.6	1338.6	1339.7	1342.1	1342.1
45°	1281.2	1275.3	1275.3	1277.7	1277.7
47.5°	1215.6	1209.7	1207.4	1209.7	1209.7
50°	1144.2	1138.3	1136.0	1138.3	1138.3
52.5°	1069.2	1063.4	1063.4	1063.4	1064.5
55°	991.9	986.1	983.7	986.1	987.2
57.5°	909.9	907.6	904.1	905.3	901.7
60°	822.1	822.1	818.6	820.9	818.6
62.5°	736.6	739.0	735.4	735.4	733.1
65°	648.8	651.1	647.6	647.6	645.3
67.5°	558.6	562.1	557.4	557.4	555.1
70°	464.9	472.0	467.3	468.4	466.1
72.5°	380.6	384.1	379.4	379.4	377.1
75°	296.3	298.6	293.9	295.1	291.6
77.5°	213.1	216.7	212.0	213.1	212.0
80°	142.9	144.0	140.5	141.7	139.4
82.5°	83.1	84.3	83.1	82.0	80.8
85°	37.5	38.6	37.5	37.5	36.3
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)