

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: P973996

Luminaire Tested: FLR2-22-60HE-L850-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973996
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

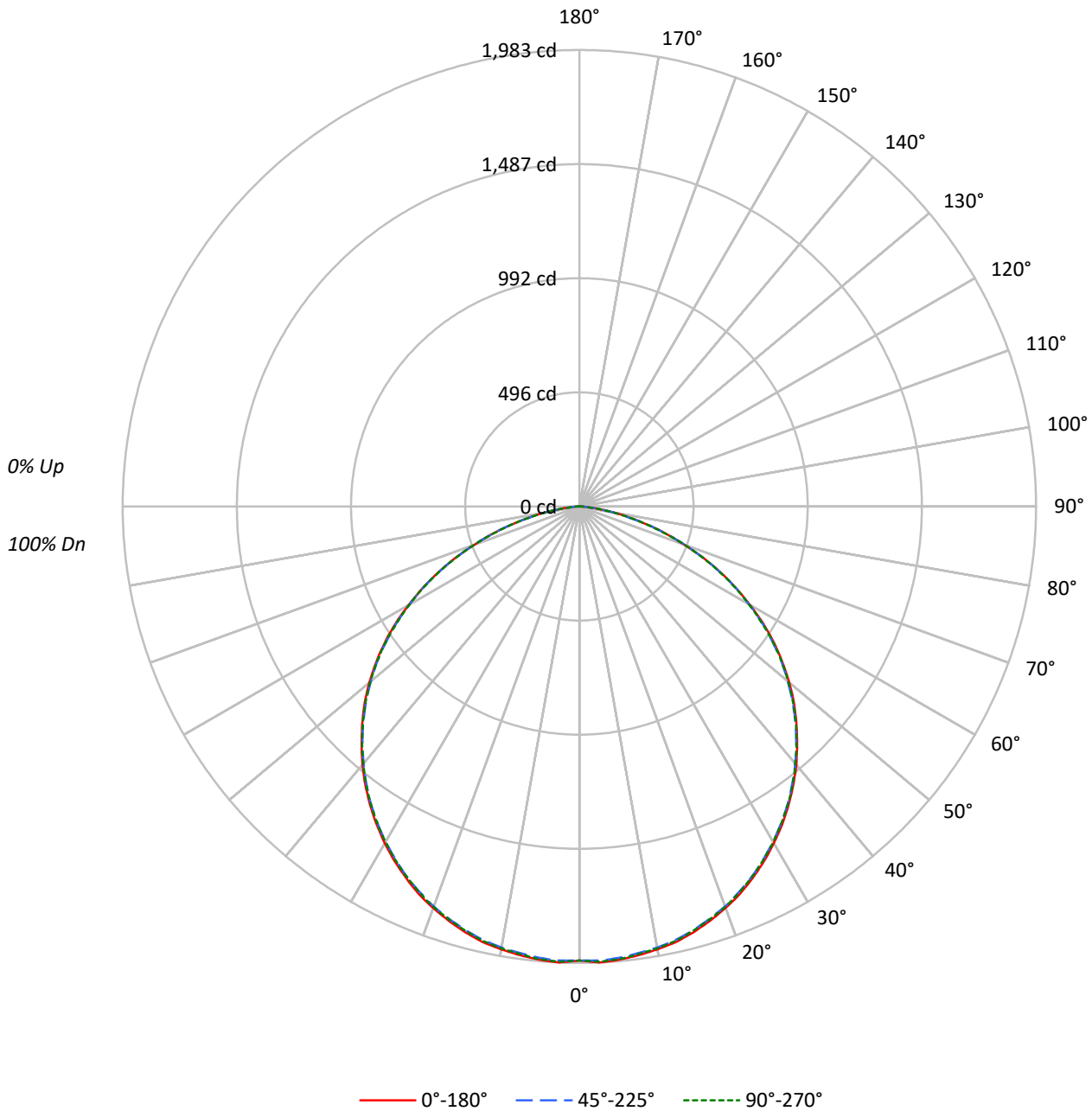
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5515.5 lumens
Efficiency: N/A
Efficacy: 116.4 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°	5307	5307	5307
5°	5341	5318	5334
10°	5339	5316	5326
15°	5335	5311	5318
20°	5316	5296	5303
25°	5288	5266	5270
30°	5250	5227	5231
35°	5203	5183	5186
40°	5148	5122	5127
45°	5072	5049	5058
50°	4983	4947	4957
55°	4841	4801	4818
60°	4603	4583	4583
65°	4297	4290	4274
70°	3805	3825	3814
75°	3204	3179	3153
80°	2303	2266	2247
85°	1204	1204	1167

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5072 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	3.4
10°-20°	537.1	9.7
20°-30°	816.2	14.8
30°-40°	986.5	17.9
40°-50°	1023.9	18.6
50°-60°	915.4	16.6
60°-70°	665.6	12.1
70°-80°	327.3	5.9
80°-90°	56.8	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°	1540.0	27.9
0°-40°	2526.5	45.8
0°-60°	4465.9	81.0
0°-90°	5515.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5515.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1972	1972	1972	1972	1972	
5°	1977	1954	1969	1961	1975	188
15°	1915	1893	1906	1902	1909	540
25°	1781	1762	1774	1770	1775	821
35°	1584	1573	1578	1579	1579	991
45°	1333	1327	1327	1329	1329	1028
55°	1032	1026	1023	1026	1027	920
65°	675	677	674	674	671	666
75°	308	311	306	307	303	327
85°	39	40	39	39	38	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1972.3	1972.3	1972.3	1972.3	1972.3
2.5°	1983.2	1960.1	1974.7	1966.2	1979.6
5°	1977.1	1954.0	1968.6	1961.3	1974.7
7.5°	1966.2	1943.0	1957.7	1950.3	1961.3
10°	1954.0	1929.6	1945.5	1938.2	1949.1
12.5°	1938.2	1915.0	1929.6	1923.5	1933.3
15°	1915.0	1893.1	1906.5	1901.6	1908.9
17.5°	1887.0	1865.1	1878.5	1874.8	1880.9
20°	1856.5	1835.8	1849.2	1845.6	1851.7
22.5°	1822.4	1800.5	1812.7	1810.3	1815.1
25°	1781.0	1761.5	1773.7	1770.1	1774.9
27.5°	1737.2	1718.9	1728.6	1728.6	1731.1
30°	1689.6	1672.6	1682.3	1682.3	1683.6
32.5°	1638.5	1625.1	1631.2	1632.4	1632.4
35°	1583.7	1572.7	1577.6	1578.8	1578.8
37.5°	1526.4	1515.4	1519.1	1521.5	1521.5
40°	1465.5	1455.8	1458.2	1460.6	1459.4
42.5°	1399.7	1392.4	1393.6	1396.1	1396.1
45°	1332.7	1326.6	1326.6	1329.1	1329.1
47.5°	1264.5	1258.4	1256.0	1258.4	1258.4
50°	1190.2	1184.1	1181.7	1184.1	1184.1
52.5°	1112.2	1106.1	1106.1	1106.1	1107.3
55°	1031.8	1025.7	1023.3	1025.7	1026.9
57.5°	946.5	944.1	940.5	941.7	938.0
60°	855.2	855.2	851.5	854.0	851.5
62.5°	766.3	768.7	765.0	765.0	762.6
65°	674.9	677.3	673.7	673.7	671.2
67.5°	581.1	584.7	579.9	579.9	577.4
70°	483.6	490.9	486.1	487.3	484.8
72.5°	395.9	399.6	394.7	394.7	392.3
75°	308.2	310.6	305.8	307.0	303.3
77.5°	221.7	225.4	220.5	221.7	220.5
80°	148.6	149.8	146.2	147.4	145.0
82.5°	86.5	87.7	86.5	85.3	84.1
85°	39.0	40.2	39.0	39.0	37.8
87.5°	9.7	9.7	9.7	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)