

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: P974589

Luminaire Tested: FLR2-24-72HE-L930-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974589
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: FLR2-24-72HE-L930-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

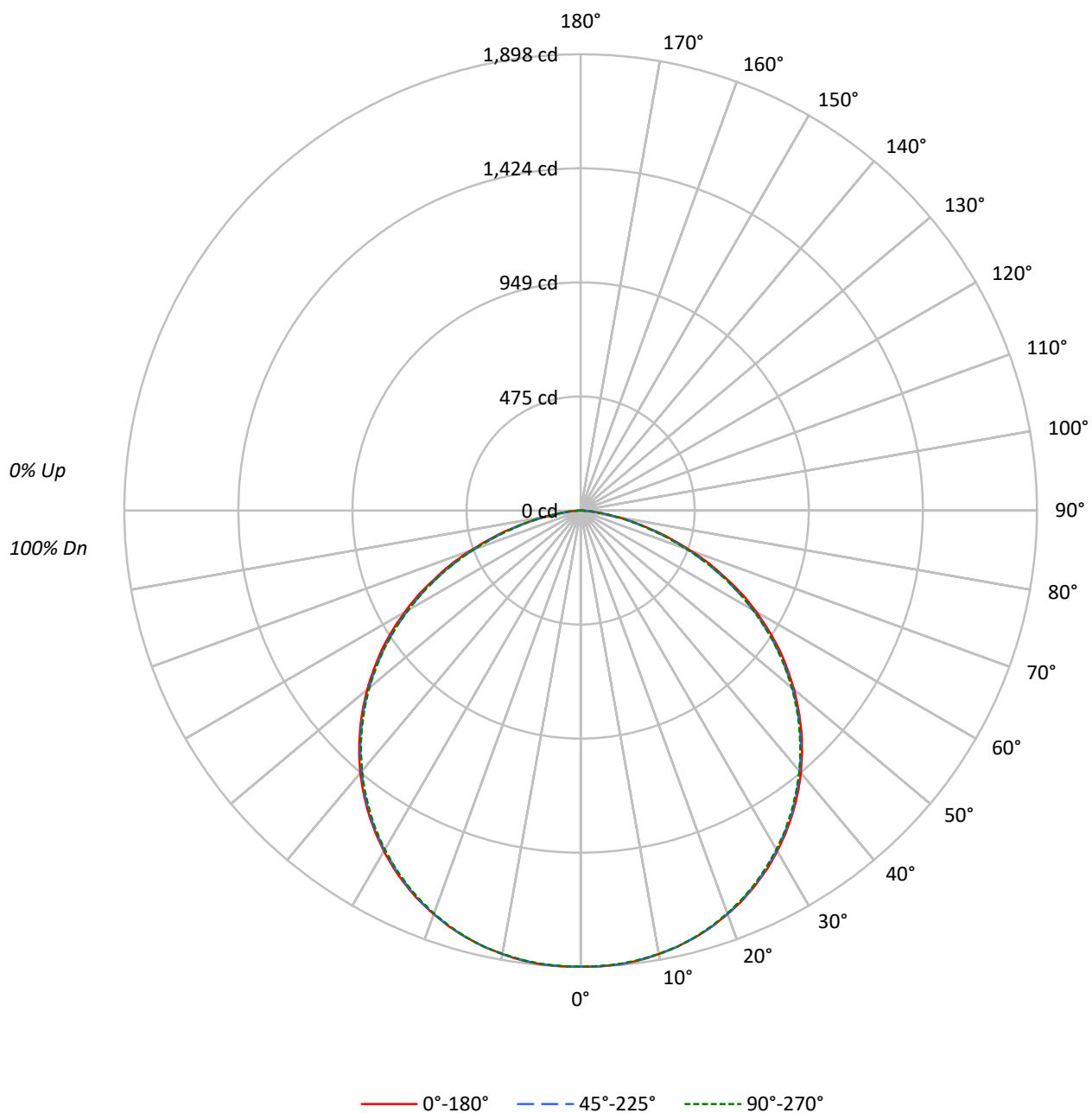
Lumens per Lamp: N/A
Luminaire Lumens: 5364.4 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.6
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		100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	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	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2554	2554	2554
5°	2559	2559	2557
10°	2561	2560	2559
15°	2561	2560	2560
20°	2559	2558	2554
25°	2554	2549	2545
30°	2543	2535	2530
35°	2526	2519	2510
40°	2504	2488	2484
45°	2471	2457	2449
50°	2425	2406	2399
55°	2368	2334	2331
60°	2269	2228	2228
65°	2123	2073	2079
70°	1910	1851	1846
75°	1604	1540	1533
80°	1172	1113	1161
85°	662	610	621

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2471 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.2	3.4
10°-20°	519.0	9.7
20°-30°	791.3	14.8
30°-40°	958.8	17.9
40°-50°	995.9	18.6
50°-60°	890.9	16.6
60°-70°	649.3	12.1
70°-80°	321.6	6.0
80°-90°	57.5	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°	1490.5	27.8
0°-40°	2449.3	45.7
0°-60°	4336.1	80.8
0°-90°	5364.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5364.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1898	1898	1898	1898	1898	
5°	1895	1895	1895	1895	1893	180
15°	1839	1838	1838	1840	1838	519
25°	1720	1718	1717	1716	1714	793
35°	1538	1536	1534	1531	1528	962
45°	1299	1296	1291	1288	1287	1001
55°	1009	1002	995	995	994	899
65°	667	661	651	654	653	661
75°	308	304	296	302	295	329
85°	43	40	40	40	40	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1898.0	1898.0	1898.0	1898.0	1898.0
2.5°	1898.0	1897.3	1897.3	1898.0	1896.7
5°	1894.6	1895.3	1894.6	1894.6	1893.3
7.5°	1887.1	1886.4	1885.8	1886.4	1884.4
10°	1874.2	1874.2	1873.5	1874.2	1872.8
12.5°	1858.5	1858.5	1858.5	1859.2	1858.5
15°	1838.8	1838.1	1838.1	1839.5	1838.1
17.5°	1815.6	1814.9	1814.9	1814.3	1812.9
20°	1787.0	1787.0	1786.3	1785.7	1783.6
22.5°	1756.4	1755.7	1753.6	1753.6	1750.9
25°	1720.3	1718.2	1716.9	1716.2	1714.1
27.5°	1680.8	1678.1	1676.0	1674.6	1672.6
30°	1636.5	1633.8	1631.7	1629.7	1628.3
32.5°	1588.8	1587.5	1584.1	1583.4	1580.7
35°	1537.8	1535.7	1533.7	1530.9	1528.2
37.5°	1483.3	1481.2	1476.5	1475.1	1473.1
40°	1425.4	1422.7	1416.5	1416.5	1414.5
42.5°	1363.4	1360.7	1356.6	1353.9	1352.5
45°	1298.7	1296.0	1291.2	1288.5	1287.1
47.5°	1229.9	1227.9	1222.4	1220.4	1218.4
50°	1158.4	1155.7	1149.6	1148.2	1146.2
52.5°	1083.5	1082.2	1074.0	1073.3	1071.3
55°	1009.3	1001.8	995.0	995.0	993.6
57.5°	927.6	922.1	913.3	913.3	911.9
60°	843.1	838.3	828.1	829.5	828.1
62.5°	760.7	750.5	741.0	745.0	741.6
65°	666.7	661.3	651.1	653.8	653.1
67.5°	580.9	570.7	561.2	566.6	563.9
70°	485.6	480.1	470.6	476.0	469.2
72.5°	395.7	390.9	381.4	387.5	380.7
75°	308.5	303.7	296.2	301.7	294.9
77.5°	226.1	222.7	215.9	221.3	222.7
80°	151.2	147.1	143.7	148.5	149.8
82.5°	88.5	85.8	84.4	85.1	88.5
85°	42.9	39.5	39.5	40.2	40.2
87.5°	11.6	10.2	11.6	12.3	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)