

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: P974742

Luminaire Tested: FLR2-24-65HE-L935-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974742
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: FLR2-24-65HE-L935-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

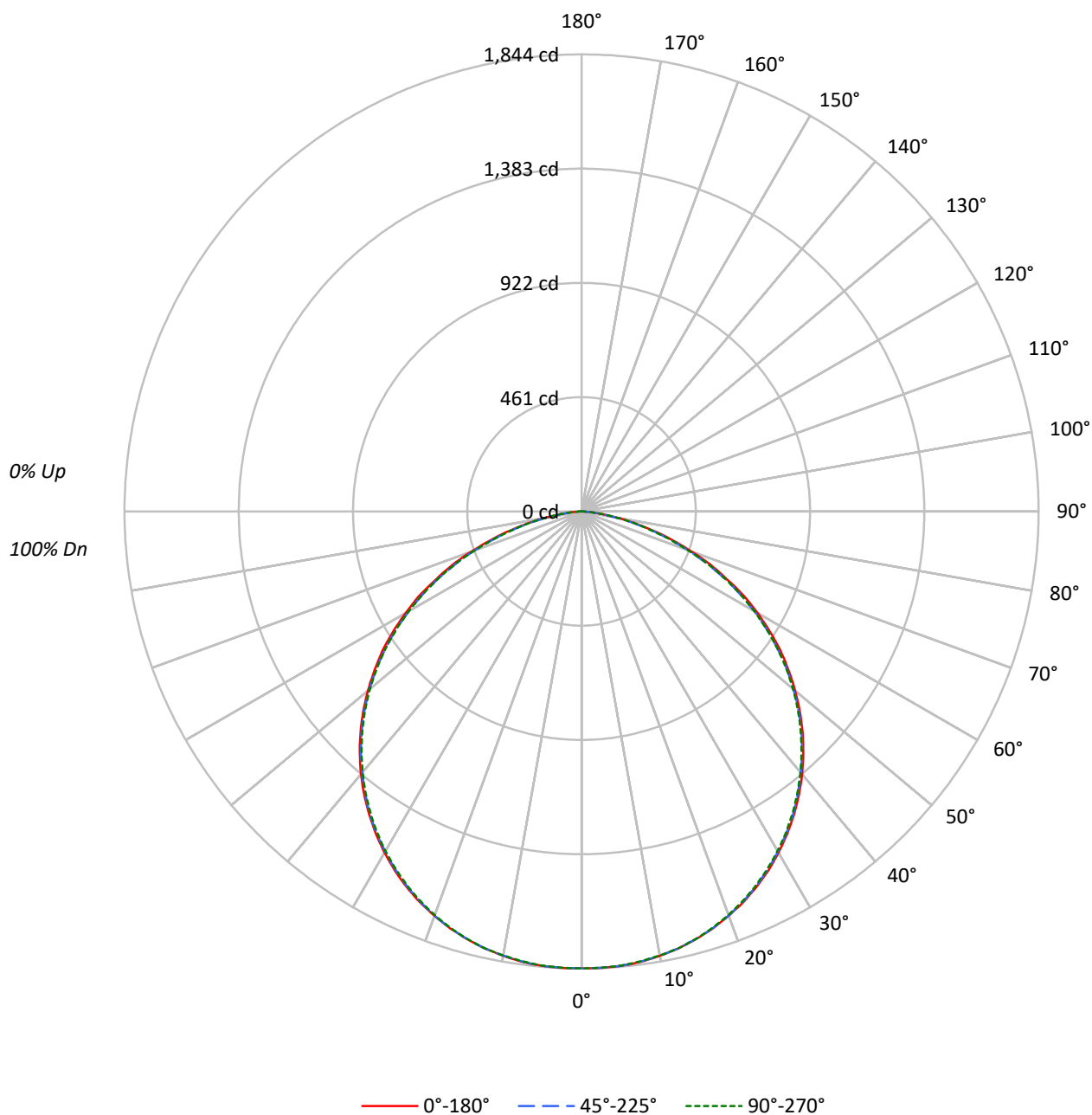
Lumens per Lamp: N/A
Luminaire Lumens: 5210.9 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.9
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°	2481	2481	2481
5°	2486	2486	2484
10°	2487	2486	2485
15°	2488	2487	2487
20°	2486	2485	2481
25°	2481	2476	2472
30°	2470	2463	2458
35°	2454	2447	2438
40°	2432	2417	2413
45°	2401	2387	2379
50°	2355	2337	2331
55°	2300	2267	2264
60°	2204	2165	2165
65°	2062	2013	2020
70°	1856	1798	1793
75°	1558	1496	1489
80°	1138	1082	1127
85°	644	593	602

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2401 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.0	3.4
10°-20°	504.2	9.7
20°-30°	768.7	14.8
30°-40°	931.3	17.9
40°-50°	967.4	18.6
50°-60°	865.4	16.6
60°-70°	630.7	12.1
70°-80°	312.4	6.0
80°-90°	55.8	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°	1447.9	27.8
0°-40°	2379.2	45.7
0°-60°	4212.0	80.8
0°-90°	5210.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5210.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1844	1844	1844	1844	1844	
5°	1840	1841	1840	1840	1839	175
15°	1786	1786	1786	1787	1786	504
25°	1671	1669	1668	1667	1665	770
35°	1494	1492	1490	1487	1484	934
45°	1262	1259	1254	1252	1250	972
55°	980	973	966	966	965	873
65°	648	642	632	635	634	642
75°	300	295	288	293	286	320
85°	42	38	38	39	39	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1843.7	1843.7	1843.7	1843.7	1843.7
2.5°	1843.7	1843.1	1843.1	1843.7	1842.4
5°	1840.4	1841.1	1840.4	1840.4	1839.1
7.5°	1833.1	1832.5	1831.8	1832.5	1830.5
10°	1820.6	1820.6	1819.9	1820.6	1819.2
12.5°	1805.4	1805.4	1805.4	1806.0	1805.4
15°	1786.2	1785.5	1785.5	1786.8	1785.5
17.5°	1763.7	1763.0	1763.0	1762.4	1761.0
20°	1735.9	1735.9	1735.2	1734.6	1732.6
22.5°	1706.1	1705.5	1703.5	1703.5	1700.8
25°	1671.1	1669.1	1667.8	1667.1	1665.1
27.5°	1632.7	1630.0	1628.1	1626.7	1624.8
30°	1589.7	1587.0	1585.1	1583.1	1581.8
32.5°	1543.4	1542.1	1538.8	1538.1	1535.4
35°	1493.8	1491.8	1489.8	1487.2	1484.5
37.5°	1440.8	1438.9	1434.2	1432.9	1430.9
40°	1384.6	1382.0	1376.0	1376.0	1374.0
42.5°	1324.4	1321.8	1317.8	1315.2	1313.8
45°	1261.6	1258.9	1254.3	1251.6	1250.3
47.5°	1194.8	1192.8	1187.5	1185.5	1183.5
50°	1125.3	1122.6	1116.7	1115.4	1113.4
52.5°	1052.5	1051.2	1043.3	1042.6	1040.6
55°	980.4	973.1	966.5	966.5	965.2
57.5°	901.0	895.7	887.1	887.1	885.8
60°	819.0	814.4	804.4	805.8	804.4
62.5°	738.9	729.0	719.8	723.7	720.4
65°	647.7	642.4	632.4	635.1	634.4
67.5°	564.3	554.4	545.1	550.4	547.8
70°	471.7	466.4	457.1	462.4	455.8
72.5°	384.4	379.7	370.5	376.4	369.8
75°	299.7	295.0	287.8	293.1	286.4
77.5°	219.6	216.3	209.7	215.0	216.3
80°	146.9	142.9	139.6	144.2	145.5
82.5°	86.0	83.4	82.0	82.7	86.0
85°	41.7	38.4	38.4	39.0	39.0
87.5°	11.2	9.9	11.2	11.9	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)