

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: P975105

Luminaire Tested: FLR2-24-65HE-L950-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975105
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-L950-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

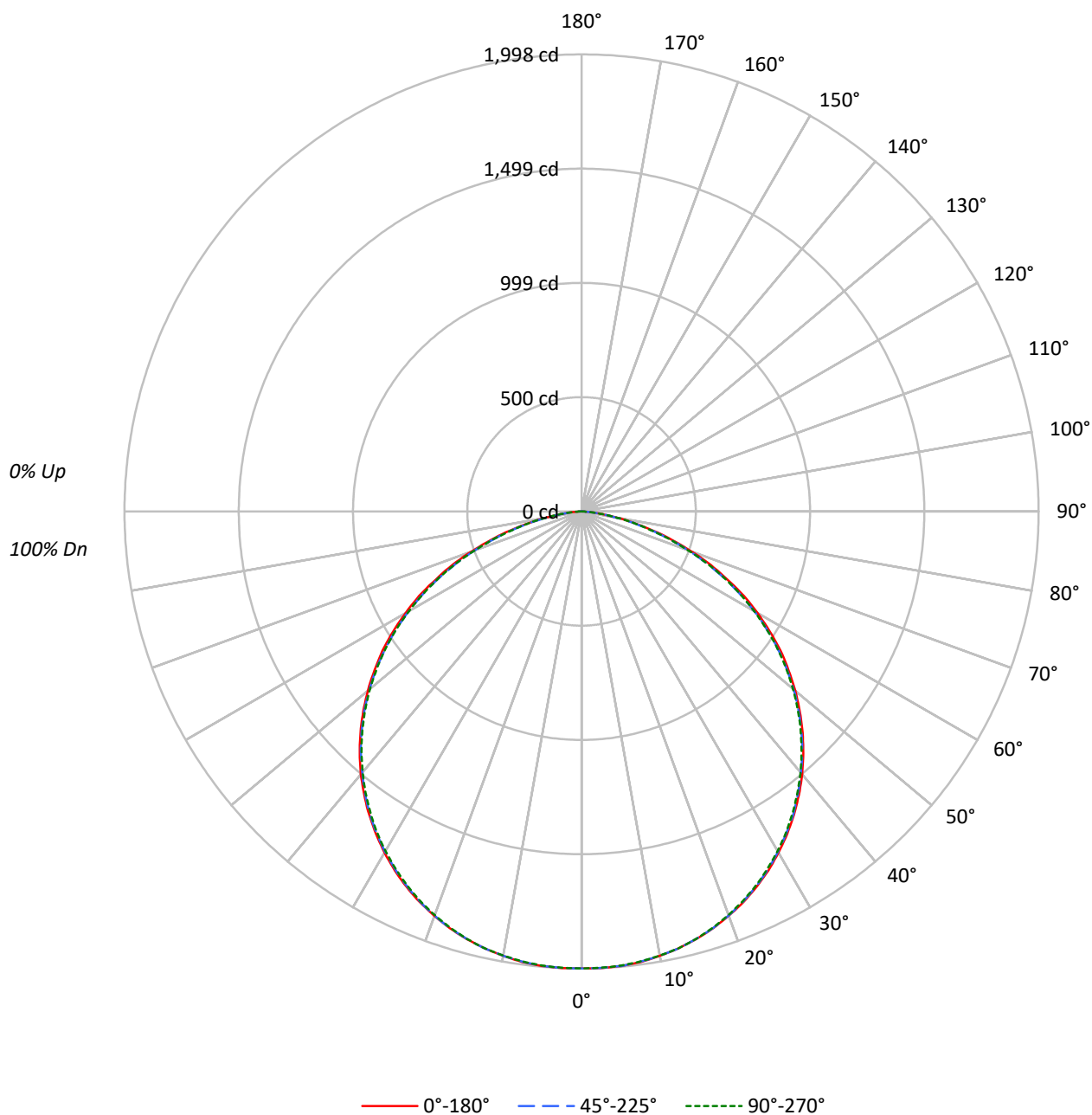
Lumens per Lamp: N/A
Luminaire Lumens: 5647.0 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P975105

CATALOG NUMBER: FLR2-24-65HE-L950-CA080

Luminous Intensity Polar Plot



TEST NUMBER: P975105

CATALOG NUMBER: FLR2-24-65HE-L950-CA080

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°	2688	2688	2688
5°	2694	2694	2692
10°	2695	2695	2694
15°	2696	2695	2695
20°	2694	2692	2688
25°	2688	2683	2679
30°	2676	2669	2663
35°	2659	2652	2642
40°	2635	2619	2615
45°	2601	2586	2578
50°	2553	2533	2526
55°	2492	2457	2454
60°	2388	2346	2346
65°	2235	2182	2189
70°	2011	1949	1943
75°	1688	1621	1614
80°	1234	1172	1222
85°	698	642	653

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2601 cd/sqm

TEST NUMBER: P975105
CATALOG NUMBER: FLR2-24-65HE-L950-CA080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	3.4
10°-20°	546.4	9.7
20°-30°	833.0	14.8
30°-40°	1009.3	17.9
40°-50°	1048.4	18.6
50°-60°	937.8	16.6
60°-70°	683.5	12.1
70°-80°	338.5	6.0
80°-90°	60.5	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°	1569.0	27.8
0°-40°	2578.3	45.7
0°-60°	4564.5	80.8
0°-90°	5647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5647.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1998	1998	1998	1998	1998	
5°	1994	1995	1994	1994	1993	190
15°	1936	1935	1935	1936	1935	547
25°	1811	1809	1807	1807	1804	835
35°	1619	1617	1614	1612	1609	1012
45°	1367	1364	1359	1356	1355	1054
55°	1062	1055	1047	1047	1046	947
65°	702	696	685	688	688	696
75°	325	320	312	318	310	346
85°	45	42	42	42	42	63
90°	0	0	0	0	0	

TEST NUMBER: P975105

CATALOG NUMBER: FLR2-24-65HE-L950-CA080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1998.0	1998.0	1998.0	1998.0	1998.0
2.5°	1998.0	1997.3	1997.3	1998.0	1996.6
5°	1994.4	1995.2	1994.4	1994.4	1993.0
7.5°	1986.6	1985.8	1985.1	1985.8	1983.7
10°	1972.9	1972.9	1972.2	1972.9	1971.5
12.5°	1956.4	1956.4	1956.4	1957.2	1956.4
15°	1935.7	1934.9	1934.9	1936.4	1934.9
17.5°	1911.3	1910.6	1910.6	1909.8	1908.4
20°	1881.2	1881.2	1880.4	1879.7	1877.6
22.5°	1848.9	1848.2	1846.0	1846.0	1843.2
25°	1810.9	1808.8	1807.3	1806.6	1804.5
27.5°	1769.3	1766.5	1764.3	1762.9	1760.7
30°	1722.7	1719.9	1717.7	1715.6	1714.1
32.5°	1672.5	1671.1	1667.5	1666.8	1663.9
35°	1618.8	1616.6	1614.5	1611.6	1608.7
37.5°	1561.4	1559.3	1554.3	1552.8	1550.7
40°	1500.5	1497.6	1491.2	1491.2	1489.0
42.5°	1435.2	1432.4	1428.1	1425.2	1423.8
45°	1367.1	1364.3	1359.3	1356.4	1355.0
47.5°	1294.7	1292.6	1286.9	1284.7	1282.5
50°	1219.5	1216.6	1210.1	1208.7	1206.6
52.5°	1140.6	1139.2	1130.6	1129.8	1127.7
55°	1062.5	1054.6	1047.4	1047.4	1046.0
57.5°	976.4	970.7	961.4	961.4	959.9
60°	887.5	882.5	871.8	873.2	871.8
62.5°	800.8	790.0	780.0	784.3	780.7
65°	701.9	696.1	685.4	688.2	687.5
67.5°	611.5	600.8	590.7	596.5	593.6
70°	511.2	505.4	495.4	501.1	493.9
72.5°	416.5	411.5	401.5	407.9	400.8
75°	324.8	319.7	311.9	317.6	310.4
77.5°	238.0	234.4	227.3	233.0	234.4
80°	159.2	154.9	151.3	156.3	157.7
82.5°	93.2	90.3	88.9	89.6	93.2
85°	45.2	41.6	41.6	42.3	42.3
87.5°	12.2	10.8	12.2	12.9	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)