

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: P974797

Luminaire Tested: FLR2-24-65HE-L935-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974797
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

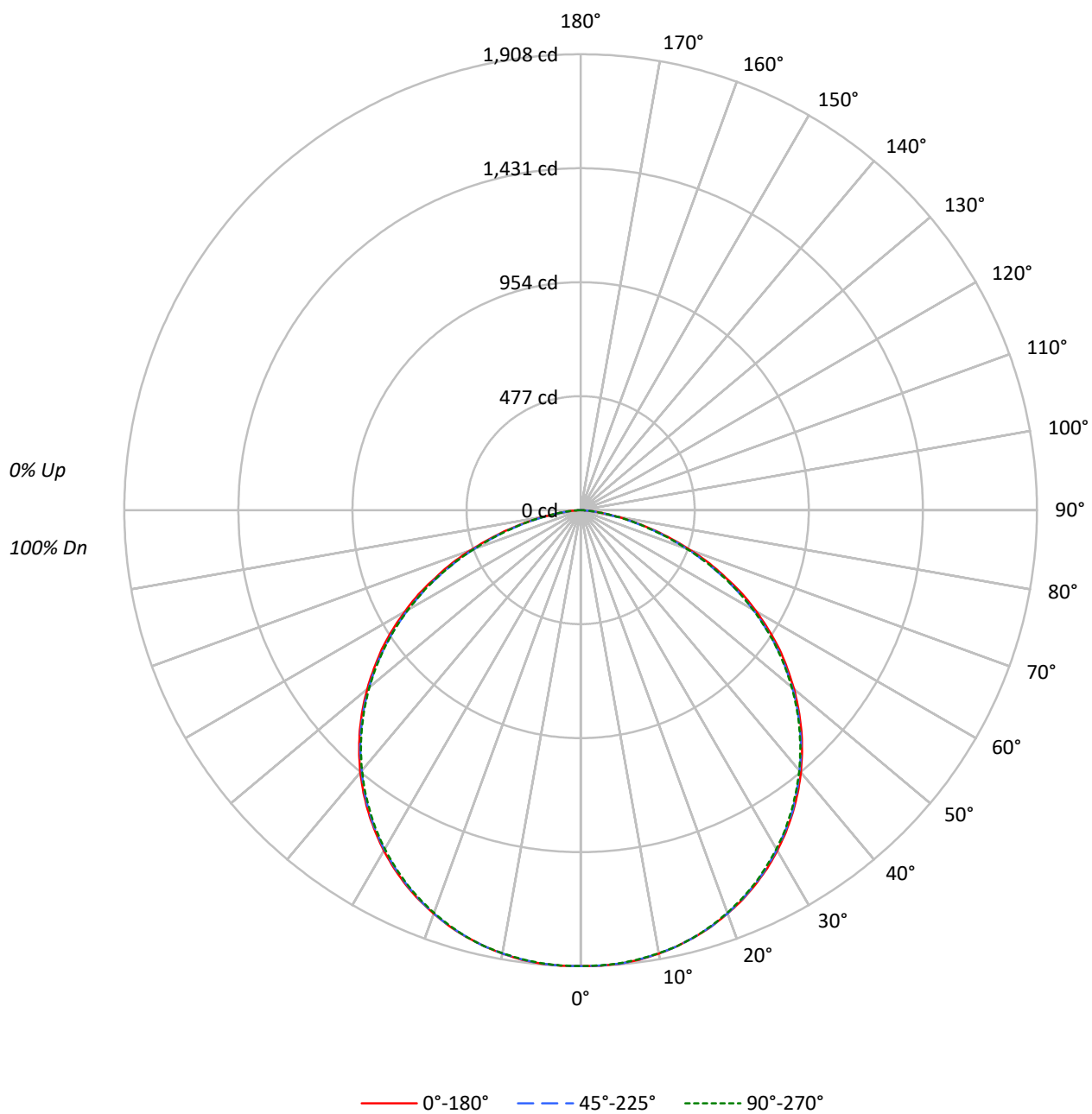
Lumens per Lamp: N/A
Luminaire Lumens: 5393.2 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P974797

CATALOG NUMBER: FLR2-24-65HE-L935-CA080

Luminous Intensity Polar Plot



TEST NUMBER: P974797

CATALOG NUMBER: FLR2-24-65HE-L935-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°	2567	2567	2567
5°	2573	2573	2571
10°	2574	2573	2573
15°	2575	2574	2574
20°	2572	2571	2568
25°	2568	2563	2559
30°	2556	2549	2543
35°	2539	2533	2524
40°	2517	2501	2498
45°	2484	2470	2462
50°	2438	2419	2412
55°	2380	2346	2343
60°	2281	2241	2241
65°	2134	2084	2090
70°	1921	1861	1856
75°	1613	1548	1541
80°	1178	1120	1167
85°	665	613	624

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2484 cd/sqm

TEST NUMBER: P974797

CATALOG NUMBER: FLR2-24-65HE-L935-CA080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	3.4
10°-20°	521.8	9.7
20°-30°	795.6	14.8
30°-40°	963.9	17.9
40°-50°	1001.2	18.6
50°-60°	895.7	16.6
60°-70°	652.8	12.1
70°-80°	323.3	6.0
80°-90°	57.8	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°	1498.5	27.8
0°-40°	2462.4	45.7
0°-60°	4359.4	80.8
0°-90°	5393.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5393.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1908	1908	1908	1908	1908	
5°	1905	1906	1905	1905	1903	181
15°	1849	1848	1848	1849	1848	522
25°	1730	1728	1726	1725	1723	797
35°	1546	1544	1542	1539	1536	967
45°	1306	1303	1298	1295	1294	1006
55°	1015	1007	1000	1000	999	904
65°	670	665	655	657	657	665
75°	310	305	298	303	296	331
85°	43	40	40	40	40	60
90°	0	0	0	0	0	

TEST NUMBER: P974797

CATALOG NUMBER: FLR2-24-65HE-L935-CA080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1908.2	1908.2	1908.2	1908.2	1908.2
2.5°	1908.2	1907.5	1907.5	1908.2	1906.9
5°	1904.8	1905.5	1904.8	1904.8	1903.4
7.5°	1897.3	1896.6	1895.9	1896.6	1894.5
10°	1884.3	1884.3	1883.6	1884.3	1882.9
12.5°	1868.5	1868.5	1868.5	1869.2	1868.5
15°	1848.7	1848.0	1848.0	1849.3	1848.0
17.5°	1825.4	1824.7	1824.7	1824.0	1822.6
20°	1796.6	1796.6	1795.9	1795.3	1793.2
22.5°	1765.8	1765.1	1763.1	1763.1	1760.3
25°	1729.5	1727.5	1726.1	1725.4	1723.4
27.5°	1689.8	1687.1	1685.0	1683.6	1681.6
30°	1645.3	1642.6	1640.5	1638.5	1637.1
32.5°	1597.4	1596.0	1592.6	1591.9	1589.2
35°	1546.0	1544.0	1541.9	1539.2	1536.4
37.5°	1491.2	1489.2	1484.4	1483.0	1481.0
40°	1433.1	1430.3	1424.1	1424.1	1422.1
42.5°	1370.7	1368.0	1363.9	1361.2	1359.8
45°	1305.7	1303.0	1298.2	1295.4	1294.1
47.5°	1236.5	1234.5	1229.0	1227.0	1224.9
50°	1164.7	1161.9	1155.8	1154.4	1152.3
52.5°	1089.3	1088.0	1079.8	1079.1	1077.0
55°	1014.7	1007.2	1000.3	1000.3	999.0
57.5°	932.5	927.1	918.2	918.2	916.8
60°	847.6	842.9	832.6	833.9	832.6
62.5°	764.8	754.5	744.9	749.0	745.6
65°	670.3	664.8	654.6	657.3	656.6
67.5°	584.0	573.8	564.2	569.7	566.9
70°	488.2	482.7	473.1	478.6	471.7
72.5°	397.8	393.0	383.4	389.6	382.7
75°	310.2	305.4	297.8	303.3	296.5
77.5°	227.3	223.9	217.0	222.5	223.9
80°	152.0	147.9	144.5	149.3	150.6
82.5°	89.0	86.3	84.9	85.6	89.0
85°	43.1	39.7	39.7	40.4	40.4
87.5°	11.6	10.3	11.6	12.3	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)