

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: P974383

Luminaire Tested: FLR2-24-65-L940-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974383
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: FLR2-24-65-L940-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L940-CA080
Ballast/Driver: -

Summary

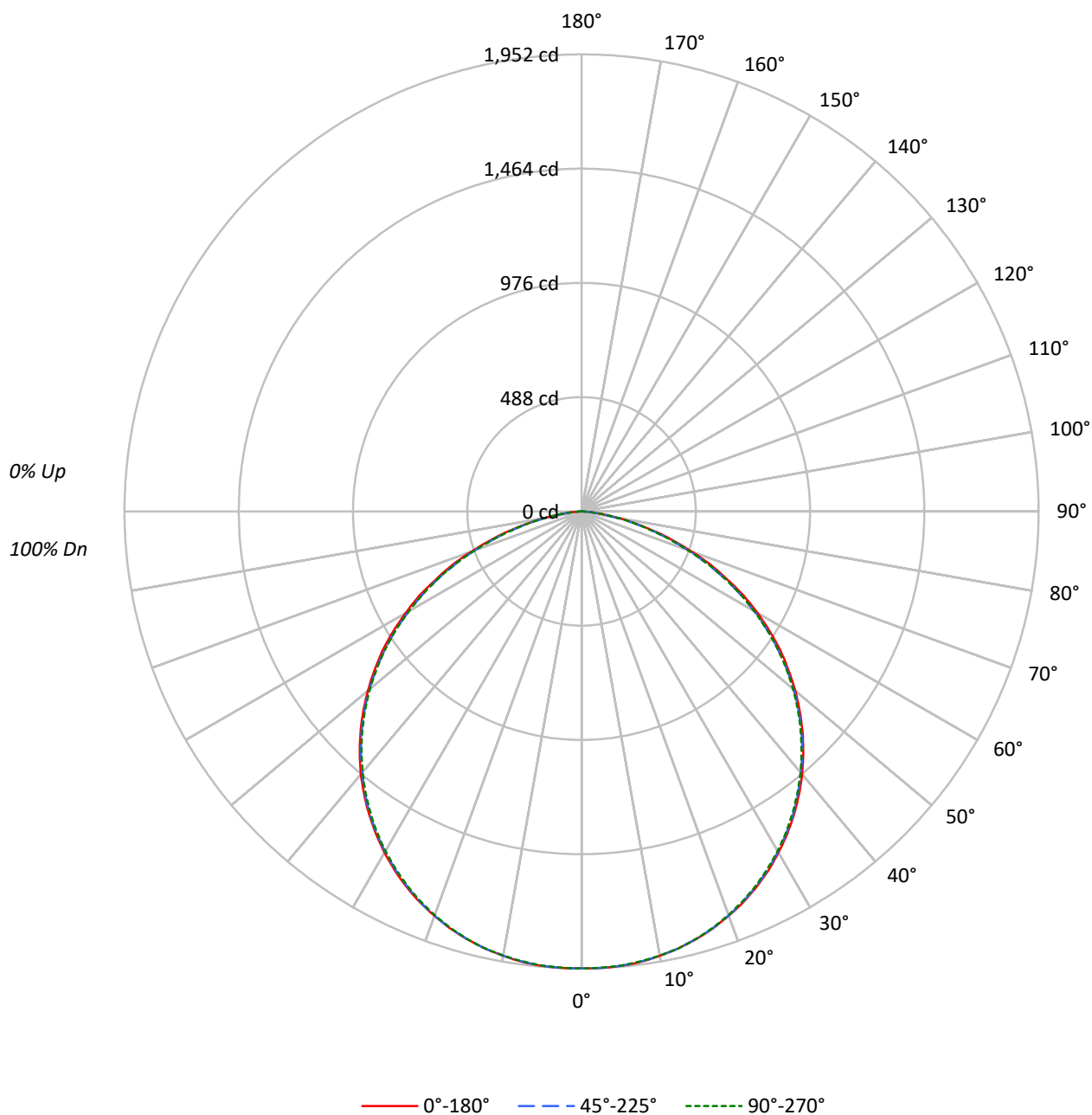
Lumens per Lamp: N/A
Luminaire Lumens: 5516.7 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
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

TEST NUMBER: P974383

CATALOG NUMBER: FLR2-24-65-L940-CA080

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°	2626	2626	2626
5°	2632	2632	2630
10°	2633	2632	2631
15°	2634	2633	2633
20°	2631	2630	2626
25°	2626	2621	2617
30°	2615	2607	2602
35°	2598	2591	2581
40°	2575	2559	2555
45°	2541	2527	2519
50°	2494	2475	2467
55°	2435	2400	2397
60°	2333	2292	2292
65°	2183	2131	2138
70°	1965	1904	1899
75°	1650	1584	1577
80°	1205	1145	1194
85°	681	627	638

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2541 cd/sqm

TEST NUMBER: P974383
CATALOG NUMBER: FLR2-24-65-L940-CA080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.3	3.4
10°-20°	533.8	9.7
20°-30°	813.8	14.8
30°-40°	986.0	17.9
40°-50°	1024.2	18.6
50°-60°	916.2	16.6
60°-70°	667.7	12.1
70°-80°	330.7	6.0
80°-90°	59.1	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°	1532.8	27.8
0°-40°	2518.8	45.7
0°-60°	4459.2	80.8
0°-90°	5516.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5516.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1952	1952	1952	1952	1952	
5°	1948	1949	1948	1948	1947	185
15°	1891	1890	1890	1892	1890	534
25°	1769	1767	1766	1765	1763	815
35°	1581	1579	1577	1574	1572	989
45°	1336	1333	1328	1325	1324	1029
55°	1038	1030	1023	1023	1022	925
65°	686	680	670	672	672	680
75°	317	312	305	310	303	338
85°	44	41	41	41	41	61
90°	0	0	0	0	0	

TEST NUMBER: P974383

CATALOG NUMBER: FLR2-24-65-L940-CA080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1951.9	1951.9	1951.9	1951.9	1951.9
2.5°	1951.9	1951.2	1951.2	1951.9	1950.5
5°	1948.4	1949.1	1948.4	1948.4	1947.0
7.5°	1940.7	1940.0	1939.3	1940.0	1937.9
10°	1927.4	1927.4	1926.7	1927.4	1926.0
12.5°	1911.3	1911.3	1911.3	1912.0	1911.3
15°	1891.0	1890.3	1890.3	1891.7	1890.3
17.5°	1867.2	1866.5	1866.5	1865.8	1864.4
20°	1837.8	1837.8	1837.1	1836.4	1834.3
22.5°	1806.2	1805.5	1803.4	1803.4	1800.6
25°	1769.1	1767.0	1765.6	1764.9	1762.8
27.5°	1728.5	1725.7	1723.6	1722.2	1720.1
30°	1683.0	1680.2	1678.1	1676.0	1674.6
32.5°	1633.9	1632.5	1629.0	1628.3	1625.5
35°	1581.4	1579.3	1577.2	1574.4	1571.6
37.5°	1525.4	1523.3	1518.4	1517.0	1514.9
40°	1465.9	1463.1	1456.8	1456.8	1454.7
42.5°	1402.1	1399.3	1395.1	1392.3	1390.9
45°	1335.6	1332.8	1327.9	1325.1	1323.7
47.5°	1264.9	1262.8	1257.2	1255.1	1252.9
50°	1191.3	1188.5	1182.2	1180.8	1178.7
52.5°	1114.3	1112.9	1104.5	1103.8	1101.7
55°	1037.9	1030.2	1023.2	1023.2	1021.8
57.5°	953.9	948.3	939.2	939.2	937.8
60°	867.0	862.1	851.6	853.0	851.6
62.5°	782.3	771.8	762.0	766.2	762.7
65°	685.7	680.1	669.5	672.3	671.6
67.5°	597.4	586.9	577.1	582.7	579.9
70°	499.4	493.8	484.0	489.6	482.6
72.5°	406.9	402.0	392.2	398.5	391.5
75°	317.3	312.4	304.7	310.3	303.3
77.5°	232.5	229.0	222.0	227.6	229.0
80°	155.5	151.3	147.8	152.7	154.1
82.5°	91.0	88.2	86.8	87.5	91.0
85°	44.1	40.6	40.6	41.3	41.3
87.5°	11.9	10.5	11.9	12.6	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)