

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: P974159

Luminaire Tested: FLR2-24-65-L930-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974159
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-L930-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L930-CA080
Ballast/Driver: -

Summary

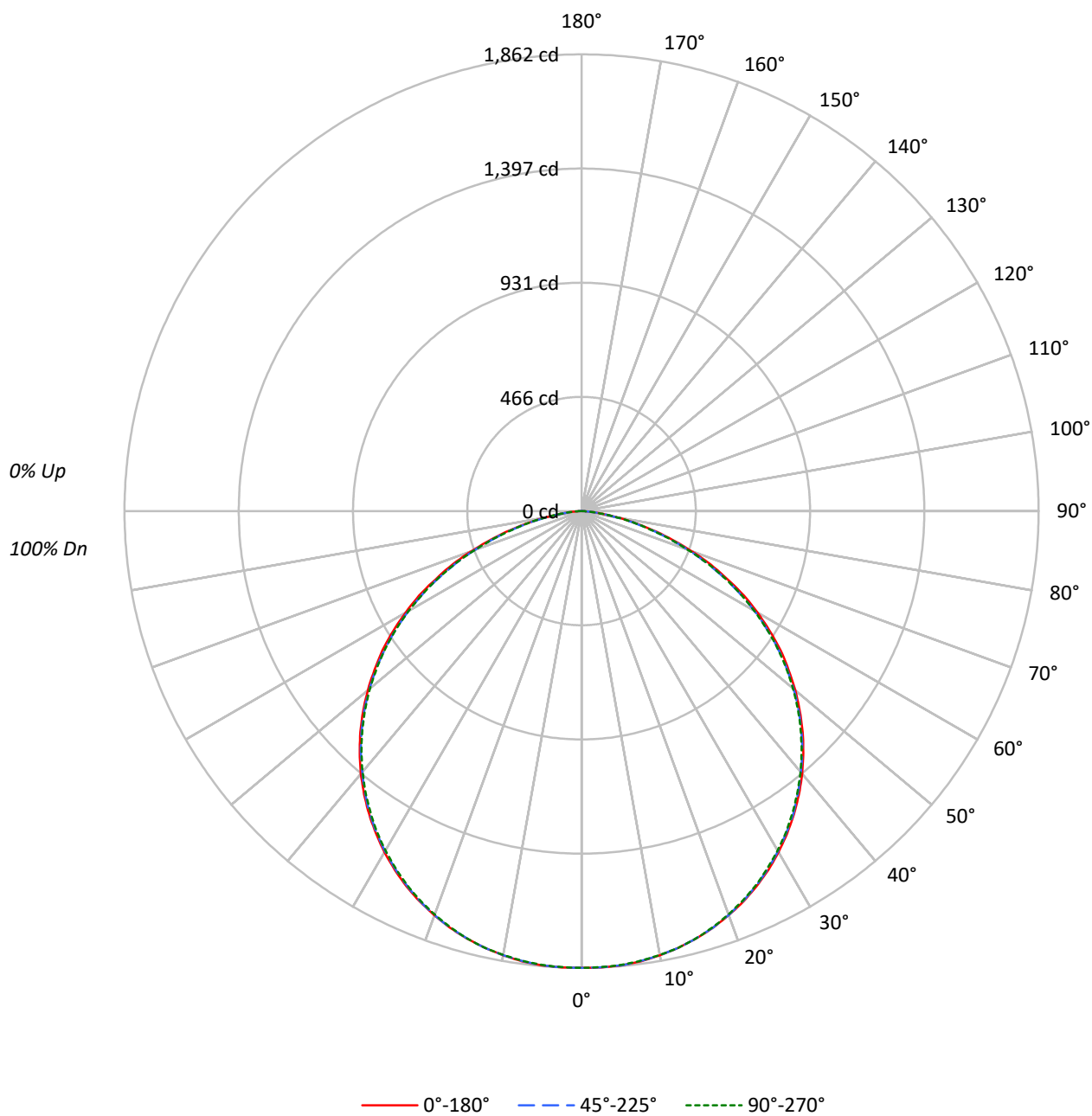
Lumens per Lamp: N/A
Luminaire Lumens: 5263.1 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	2506	2506	2506
5°	2511	2511	2509
10°	2512	2511	2510
15°	2513	2512	2512
20°	2510	2509	2506
25°	2506	2501	2497
30°	2495	2487	2482
35°	2478	2472	2463
40°	2456	2441	2438
45°	2425	2410	2403
50°	2379	2361	2354
55°	2323	2290	2287
60°	2226	2186	2186
65°	2082	2034	2040
70°	1874	1816	1811
75°	1574	1511	1504
80°	1149	1093	1139
85°	650	599	608

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2425 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.8	3.4
10°-20°	509.2	9.7
20°-30°	776.4	14.8
30°-40°	940.6	17.9
40°-50°	977.1	18.6
50°-60°	874.1	16.6
60°-70°	637.0	12.1
70°-80°	315.5	6.0
80°-90°	56.4	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°	1462.3	27.8
0°-40°	2403.0	45.7
0°-60°	4254.1	80.8
0°-90°	5263.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5263.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1862	1862	1862	1862	1862	
5°	1859	1860	1859	1859	1858	177
15°	1804	1803	1803	1805	1803	509
25°	1688	1686	1684	1684	1682	778
35°	1509	1507	1505	1502	1499	944
45°	1274	1272	1267	1264	1263	982
55°	990	983	976	976	975	882
65°	654	649	639	641	641	648
75°	303	298	291	296	289	323
85°	42	39	39	39	39	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1862.2	1862.2	1862.2	1862.2	1862.2
2.5°	1862.2	1861.5	1861.5	1862.2	1860.8
5°	1858.8	1859.5	1858.8	1858.8	1857.5
7.5°	1851.5	1850.8	1850.1	1850.8	1848.8
10°	1838.8	1838.8	1838.1	1838.8	1837.4
12.5°	1823.4	1823.4	1823.4	1824.1	1823.4
15°	1804.0	1803.4	1803.4	1804.7	1803.4
17.5°	1781.3	1780.7	1780.7	1780.0	1778.6
20°	1753.3	1753.3	1752.6	1751.9	1749.9
22.5°	1723.2	1722.5	1720.5	1720.5	1717.8
25°	1687.8	1685.8	1684.4	1683.8	1681.8
27.5°	1649.0	1646.4	1644.3	1643.0	1641.0
30°	1605.6	1602.9	1600.9	1598.9	1597.6
32.5°	1558.8	1557.5	1554.1	1553.5	1550.8
35°	1508.7	1506.7	1504.7	1502.0	1499.4
37.5°	1455.3	1453.3	1448.6	1447.2	1445.2
40°	1398.5	1395.8	1389.8	1389.8	1387.8
42.5°	1337.7	1335.0	1331.0	1328.3	1327.0
45°	1274.2	1271.5	1266.8	1264.2	1262.8
47.5°	1206.7	1204.7	1199.4	1197.3	1195.3
50°	1136.5	1133.9	1127.9	1126.5	1124.5
52.5°	1063.0	1061.7	1053.7	1053.0	1051.0
55°	990.2	982.9	976.2	976.2	974.8
57.5°	910.0	904.7	896.0	896.0	894.7
60°	827.2	822.5	812.5	813.8	812.5
62.5°	746.3	736.3	727.0	731.0	727.6
65°	654.1	648.8	638.8	641.4	640.8
67.5°	569.9	559.9	550.6	555.9	553.2
70°	476.4	471.1	461.7	467.0	460.4
72.5°	388.2	383.5	374.2	380.2	373.5
75°	302.7	298.0	290.7	296.0	289.3
77.5°	221.8	218.5	211.8	217.2	218.5
80°	148.3	144.3	141.0	145.7	147.0
82.5°	86.9	84.2	82.9	83.5	86.9
85°	42.1	38.8	38.8	39.4	39.4
87.5°	11.4	10.0	11.4	12.0	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)