

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: P974288

Luminaire Tested: FLR2-24-72-L840-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974288
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: FLR2-24-72-L840-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L840-CP080
Ballast/Driver: -

Summary

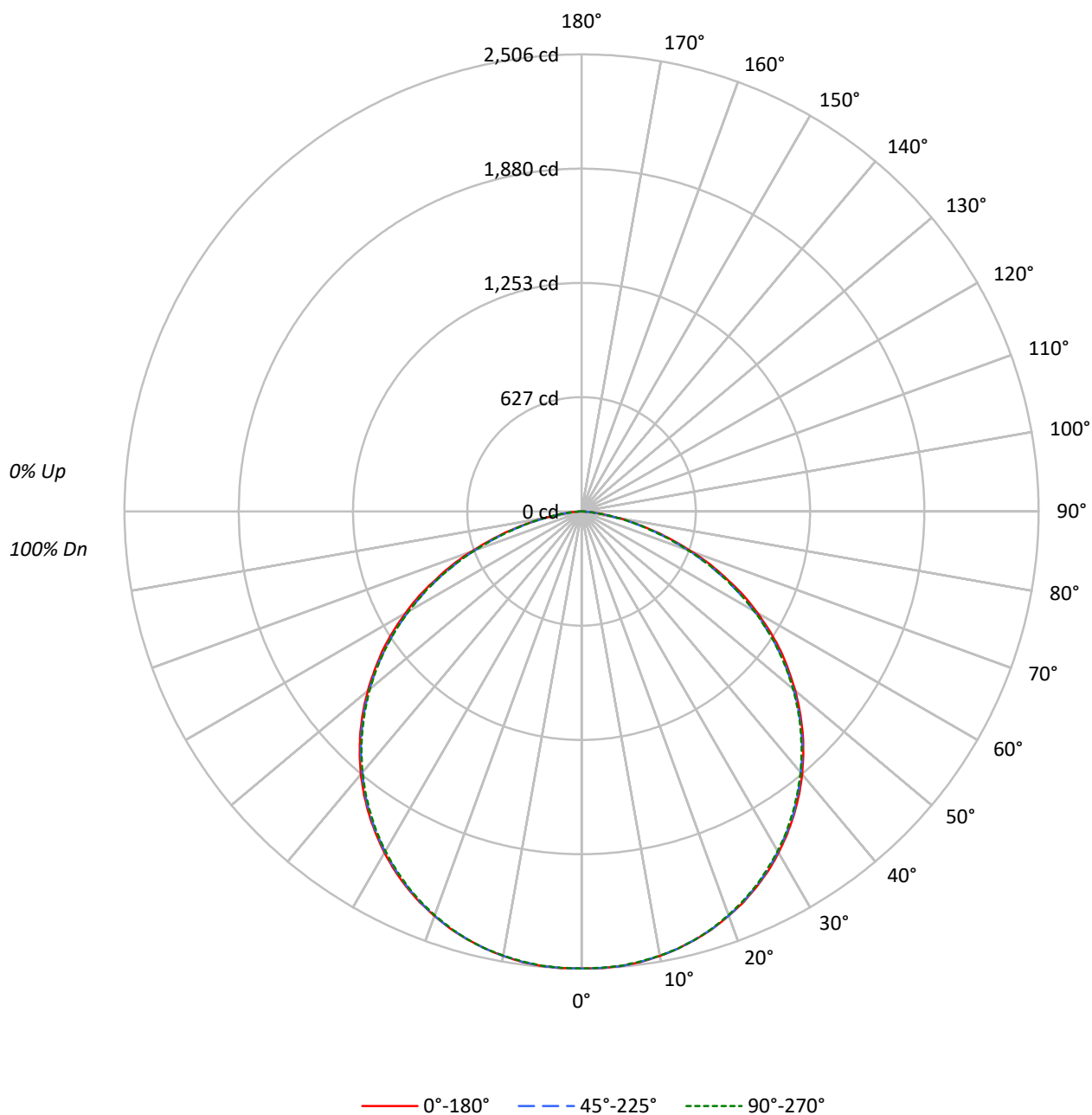
Lumens per Lamp: N/A
Luminaire Lumens: 7083.8 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 60.9
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: P974288

CATALOG NUMBER: FLR2-24-72-L840-CP080

Luminous Intensity Polar Plot



TEST NUMBER: P974288

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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°	3372	3372	3372
5°	3379	3379	3377
10°	3381	3380	3379
15°	3382	3381	3381
20°	3379	3378	3372
25°	3373	3366	3361
30°	3357	3348	3341
35°	3335	3326	3315
40°	3306	3286	3281
45°	3263	3244	3234
50°	3202	3177	3168
55°	3126	3082	3078
60°	2996	2943	2943
65°	2803	2737	2746
70°	2522	2445	2437
75°	2118	2034	2024
80°	1547	1471	1533
85°	875	806	820

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3263 cd/sqm

TEST NUMBER: P974288

CATALOG NUMBER: FLR2-24-72-L840-CP080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.9	3.4
10°-20°	685.4	9.7
20°-30°	1045.0	14.8
30°-40°	1266.0	17.9
40°-50°	1315.1	18.6
50°-60°	1176.5	16.6
60°-70°	857.4	12.1
70°-80°	424.6	6.0
80°-90°	75.9	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°	1968.2	27.8
0°-40°	3234.3	45.7
0°-60°	5725.9	80.8
0°-90°	7083.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7083.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2506	2506	2506	2506	2506	
5°	2502	2503	2502	2502	2500	238
15°	2428	2427	2427	2429	2427	686
25°	2272	2269	2267	2266	2264	1047
35°	2031	2028	2025	2022	2018	1270
45°	1715	1711	1705	1702	1700	1322
55°	1333	1323	1314	1314	1312	1187
65°	880	873	860	863	862	873
75°	407	401	391	398	389	434
85°	57	52	52	53	53	78
90°	0	0	0	0	0	

TEST NUMBER: P974288

CATALOG NUMBER: FLR2-24-72-L840-CP080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2506.4	2506.4	2506.4	2506.4	2506.4
2.5°	2506.4	2505.5	2505.5	2506.4	2504.6
5°	2501.9	2502.8	2501.9	2501.9	2500.1
7.5°	2492.0	2491.1	2490.2	2491.1	2488.4
10°	2474.9	2474.9	2474.0	2474.9	2473.1
12.5°	2454.2	2454.2	2454.2	2455.1	2454.2
15°	2428.1	2427.2	2427.2	2429.0	2427.2
17.5°	2397.6	2396.7	2396.7	2395.8	2394.0
20°	2359.8	2359.8	2358.9	2358.0	2355.3
22.5°	2319.3	2318.4	2315.7	2315.7	2312.1
25°	2271.7	2269.0	2267.2	2266.3	2263.6
27.5°	2219.5	2215.9	2213.2	2211.4	2208.7
30°	2161.0	2157.4	2154.7	2152.0	2150.2
32.5°	2098.1	2096.3	2091.8	2090.9	2087.3
35°	2030.6	2027.9	2025.2	2021.6	2018.1
37.5°	1958.7	1956.0	1949.7	1947.9	1945.2
40°	1882.3	1878.7	1870.6	1870.6	1867.9
42.5°	1800.4	1796.8	1791.4	1787.8	1786.0
45°	1715.0	1711.4	1705.1	1701.5	1699.7
47.5°	1624.2	1621.5	1614.3	1611.6	1608.9
50°	1529.7	1526.1	1518.0	1516.2	1513.5
52.5°	1430.8	1429.0	1418.2	1417.3	1414.6
55°	1332.8	1322.9	1313.9	1313.9	1312.1
57.5°	1224.9	1217.7	1206.0	1206.0	1204.2
60°	1113.3	1107.1	1093.6	1095.4	1093.6
62.5°	1004.5	991.0	978.4	983.8	979.3
65°	880.4	873.2	859.7	863.3	862.4
67.5°	767.1	753.6	741.0	748.2	744.6
70°	641.2	634.0	621.4	628.6	619.6
72.5°	522.5	516.2	503.6	511.7	502.7
75°	407.4	401.1	391.2	398.4	389.4
77.5°	298.6	294.1	285.1	292.3	294.1
80°	199.6	194.3	189.8	196.0	197.8
82.5°	116.9	113.3	111.5	112.4	116.9
85°	56.7	52.2	52.2	53.1	53.1
87.5°	15.3	13.5	15.3	16.2	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)