

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: P974320

Luminaire Tested: FLR2-24-72-L840-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974320
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-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L840-CP375
Ballast/Driver: -

Summary

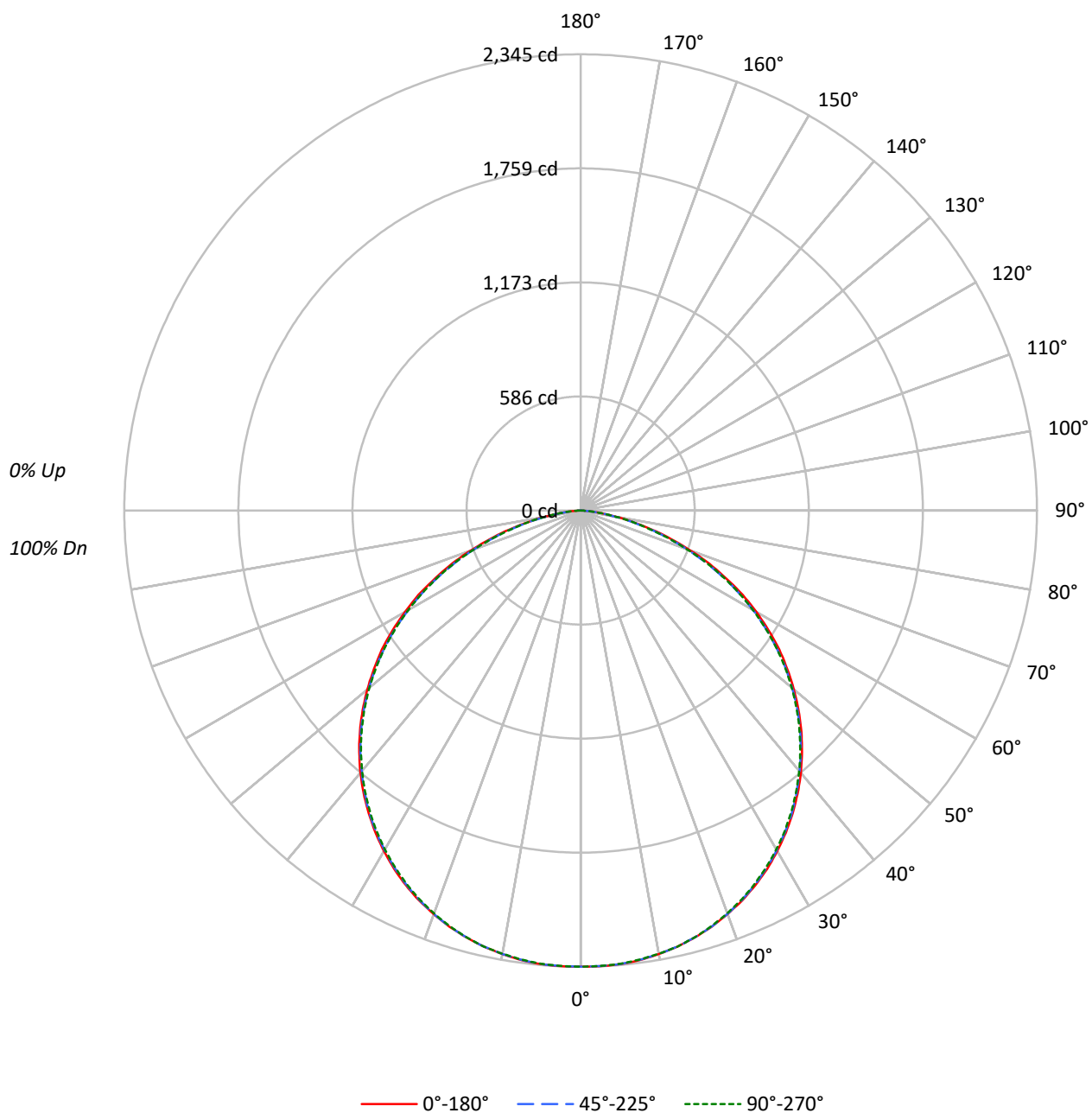
Lumens per Lamp: N/A
Luminaire Lumens: 6626.7 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	3155	3155	3155
5°	3161	3161	3159
10°	3163	3162	3161
15°	3164	3163	3163
20°	3161	3160	3155
25°	3155	3149	3144
30°	3141	3132	3125
35°	3120	3112	3101
40°	3093	3074	3069
45°	3053	3035	3025
50°	2995	2973	2964
55°	2925	2883	2879
60°	2803	2753	2753
65°	2622	2561	2569
70°	2360	2287	2280
75°	1981	1903	1894
80°	1447	1375	1434
85°	818	753	766

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3053 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.6	3.4
10°-20°	641.2	9.7
20°-30°	977.5	14.8
30°-40°	1184.4	17.9
40°-50°	1230.3	18.6
50°-60°	1100.5	16.6
60°-70°	802.1	12.1
70°-80°	397.2	6.0
80°-90°	71.0	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°	1841.2	27.8
0°-40°	3025.6	45.7
0°-60°	5356.4	80.8
0°-90°	6626.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6626.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2345	2345	2345	2345	2345	
5°	2340	2341	2340	2340	2339	223
15°	2272	2271	2271	2272	2271	641
25°	2125	2123	2121	2120	2118	979
35°	1900	1897	1895	1891	1888	1188
45°	1604	1601	1595	1592	1590	1236
55°	1247	1238	1229	1229	1227	1111
65°	824	817	804	808	807	816
75°	381	375	366	373	364	406
85°	53	49	49	50	50	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2344.7	2344.7	2344.7	2344.7	2344.7
2.5°	2344.7	2343.8	2343.8	2344.7	2343.0
5°	2340.5	2341.3	2340.5	2340.5	2338.8
7.5°	2331.2	2330.4	2329.5	2330.4	2327.8
10°	2315.2	2315.2	2314.4	2315.2	2313.5
12.5°	2295.9	2295.9	2295.9	2296.7	2295.9
15°	2271.5	2270.6	2270.6	2272.3	2270.6
17.5°	2242.9	2242.0	2242.0	2241.2	2239.5
20°	2207.5	2207.5	2206.7	2205.9	2203.3
22.5°	2169.7	2168.8	2166.3	2166.3	2163.0
25°	2125.1	2122.6	2120.9	2120.0	2117.5
27.5°	2076.3	2072.9	2070.4	2068.7	2066.2
30°	2021.6	2018.3	2015.7	2013.2	2011.5
32.5°	1962.7	1961.0	1956.8	1956.0	1952.6
35°	1899.6	1897.1	1894.6	1891.2	1887.9
37.5°	1832.3	1829.8	1823.9	1822.2	1819.7
40°	1760.8	1757.5	1749.9	1749.9	1747.4
42.5°	1684.3	1680.9	1675.8	1672.5	1670.8
45°	1604.3	1601.0	1595.1	1591.7	1590.0
47.5°	1519.4	1516.8	1510.1	1507.6	1505.1
50°	1431.0	1427.7	1420.1	1418.4	1415.9
52.5°	1338.5	1336.8	1326.7	1325.9	1323.3
55°	1246.8	1237.5	1229.1	1229.1	1227.4
57.5°	1145.8	1139.1	1128.2	1128.2	1126.5
60°	1041.5	1035.6	1023.0	1024.7	1023.0
62.5°	939.7	927.1	915.3	920.4	916.2
65°	823.6	816.9	804.3	807.6	806.8
67.5°	717.6	705.0	693.2	700.0	696.6
70°	599.8	593.1	581.3	588.1	579.6
72.5°	488.8	482.9	471.1	478.7	470.3
75°	381.1	375.2	366.0	372.7	364.3
77.5°	279.3	275.1	266.7	273.4	275.1
80°	186.8	181.7	177.5	183.4	185.1
82.5°	109.4	106.0	104.3	105.2	109.4
85°	53.0	48.8	48.8	49.6	49.6
87.5°	14.3	12.6	14.3	15.1	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)