

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: P974578

Luminaire Tested: FLR2-24-72HE-L830-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974578
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: FLR2-24-72HE-L830-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

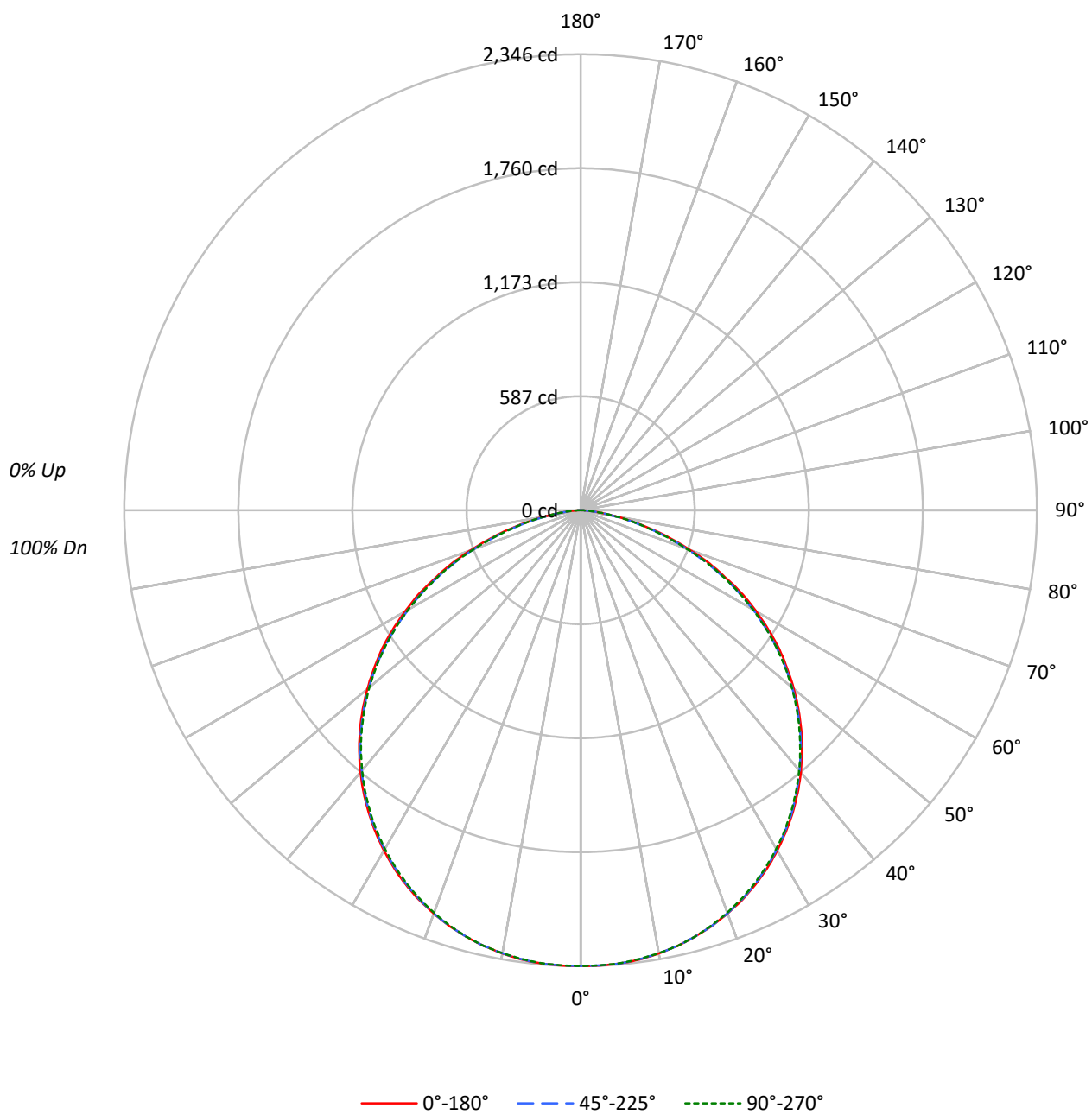
Lumens per Lamp: N/A
Luminaire Lumens: 6629.5 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.6
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

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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°	3156	3156	3156
5°	3162	3162	3160
10°	3164	3163	3162
15°	3165	3164	3164
20°	3162	3161	3156
25°	3156	3150	3145
30°	3142	3133	3126
35°	3121	3113	3102
40°	3094	3075	3070
45°	3054	3036	3027
50°	2997	2974	2965
55°	2926	2884	2880
60°	2804	2754	2754
65°	2623	2562	2570
70°	2361	2288	2281
75°	1982	1903	1894
80°	1447	1376	1435
85°	818	753	767

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3054 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.6	3.4
10°-20°	641.4	9.7
20°-30°	977.9	14.8
30°-40°	1184.9	17.9
40°-50°	1230.8	18.6
50°-60°	1101.0	16.6
60°-70°	802.4	12.1
70°-80°	397.4	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°	1842.0	27.8
0°-40°	3026.9	45.7
0°-60°	5358.6	80.8
0°-90°	6629.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6629.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2346	2346	2346	2346	2346	
5°	2341	2342	2341	2341	2340	223
15°	2272	2272	2272	2273	2272	642
25°	2126	2123	2122	2121	2118	980
35°	1900	1898	1895	1892	1889	1189
45°	1605	1602	1596	1592	1591	1237
55°	1247	1238	1230	1230	1228	1111
65°	824	817	805	808	807	817
75°	381	375	366	373	364	407
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°	2345.6	2345.6	2345.6	2345.6	2345.6
2.5°	2345.6	2344.8	2344.8	2345.6	2343.9
5°	2341.4	2342.3	2341.4	2341.4	2339.7
7.5°	2332.2	2331.3	2330.5	2331.3	2328.8
10°	2316.2	2316.2	2315.3	2316.2	2314.5
12.5°	2296.8	2296.8	2296.8	2297.7	2296.8
15°	2272.4	2271.6	2271.6	2273.2	2271.6
17.5°	2243.8	2243.0	2243.0	2242.1	2240.4
20°	2208.4	2208.4	2207.6	2206.8	2204.2
22.5°	2170.6	2169.7	2167.2	2167.2	2163.8
25°	2126.0	2123.4	2121.8	2120.9	2118.4
27.5°	2077.1	2073.8	2071.3	2069.6	2067.0
30°	2022.4	2019.1	2016.6	2014.0	2012.3
32.5°	1963.5	1961.8	1957.6	1956.8	1953.4
35°	1900.4	1897.9	1895.4	1892.0	1888.6
37.5°	1833.1	1830.6	1824.7	1823.0	1820.5
40°	1761.5	1758.2	1750.6	1750.6	1748.1
42.5°	1684.9	1681.6	1676.5	1673.2	1671.5
45°	1605.0	1601.6	1595.7	1592.4	1590.7
47.5°	1520.0	1517.5	1510.7	1508.2	1505.7
50°	1431.6	1428.2	1420.7	1419.0	1416.5
52.5°	1339.0	1337.4	1327.3	1326.4	1323.9
55°	1247.3	1238.0	1229.6	1229.6	1227.9
57.5°	1146.3	1139.6	1128.6	1128.6	1126.9
60°	1041.9	1036.0	1023.4	1025.1	1023.4
62.5°	940.1	927.5	915.7	920.7	916.5
65°	824.0	817.2	804.6	808.0	807.1
67.5°	717.9	705.3	693.5	700.2	696.9
70°	600.1	593.4	581.6	588.3	579.9
72.5°	489.0	483.1	471.3	478.9	470.5
75°	381.3	375.4	366.1	372.8	364.4
77.5°	279.4	275.2	266.8	273.5	275.2
80°	186.8	181.8	177.6	183.5	185.2
82.5°	109.4	106.0	104.4	105.2	109.4
85°	53.0	48.8	48.8	49.7	49.7
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)