

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: P974567

Luminaire Tested: FLR2-24-72HE-L830-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974567
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

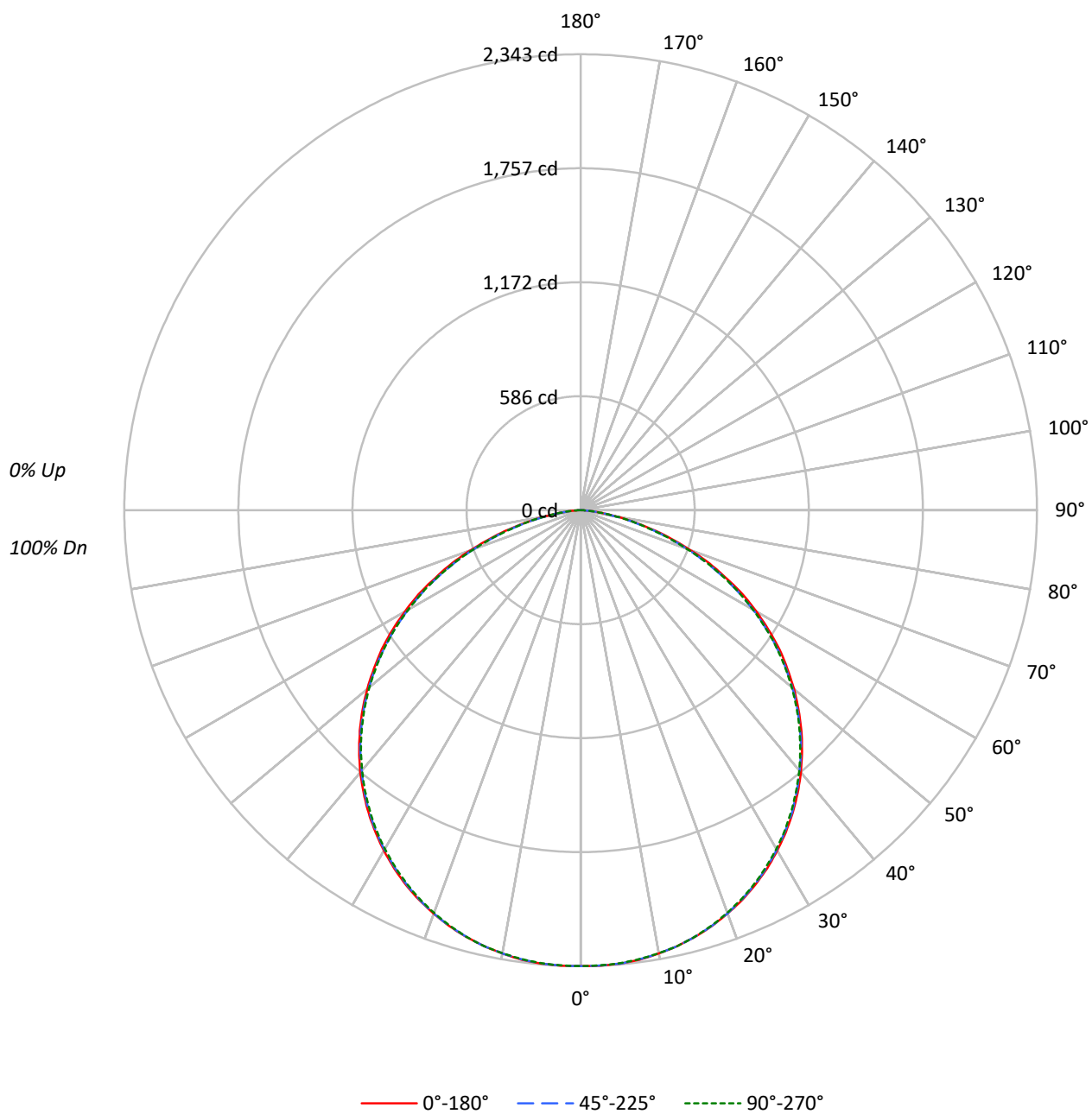
Lumens per Lamp: N/A
Luminaire Lumens: 6622.3 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.6
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°	3153	3153	3153
5°	3159	3159	3157
10°	3161	3160	3159
15°	3162	3161	3161
20°	3159	3157	3153
25°	3153	3147	3142
30°	3139	3130	3123
35°	3118	3110	3099
40°	3091	3071	3067
45°	3051	3033	3024
50°	2993	2970	2962
55°	2923	2881	2877
60°	2801	2751	2751
65°	2621	2559	2567
70°	2358	2285	2279
75°	1980	1901	1892
80°	1446	1375	1433
85°	818	753	766

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3051 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.4	3.4
10°-20°	640.7	9.7
20°-30°	976.9	14.8
30°-40°	1183.6	17.9
40°-50°	1229.4	18.6
50°-60°	1099.8	16.6
60°-70°	801.6	12.1
70°-80°	397.0	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°	1840.0	27.8
0°-40°	3023.6	45.7
0°-60°	5352.8	80.8
0°-90°	6622.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6622.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2343	2343	2343	2343	2343	
5°	2339	2340	2339	2339	2337	222
15°	2270	2269	2269	2271	2269	641
25°	2124	2121	2120	2119	2116	979
35°	1898	1896	1893	1890	1887	1187
45°	1603	1600	1594	1591	1589	1236
55°	1246	1237	1228	1228	1227	1110
65°	823	816	804	807	806	816
75°	381	375	366	372	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°	2343.1	2343.1	2343.1	2343.1	2343.1
2.5°	2343.1	2342.3	2342.3	2343.1	2341.4
5°	2338.9	2339.7	2338.9	2338.9	2337.2
7.5°	2329.7	2328.8	2328.0	2328.8	2326.3
10°	2313.7	2313.7	2312.8	2313.7	2312.0
12.5°	2294.3	2294.3	2294.3	2295.2	2294.3
15°	2270.0	2269.1	2269.1	2270.8	2269.1
17.5°	2241.4	2240.5	2240.5	2239.7	2238.0
20°	2206.1	2206.1	2205.2	2204.4	2201.9
22.5°	2168.2	2167.4	2164.9	2164.9	2161.5
25°	2123.7	2121.2	2119.5	2118.6	2116.1
27.5°	2074.9	2071.5	2069.0	2067.3	2064.8
30°	2020.3	2016.9	2014.4	2011.9	2010.2
32.5°	1961.4	1959.7	1955.5	1954.7	1951.3
35°	1898.4	1895.8	1893.3	1890.0	1886.6
37.5°	1831.1	1828.6	1822.7	1821.0	1818.5
40°	1759.6	1756.3	1748.7	1748.7	1746.2
42.5°	1683.1	1679.8	1674.7	1671.4	1669.7
45°	1603.3	1599.9	1594.0	1590.7	1589.0
47.5°	1518.4	1515.8	1509.1	1506.6	1504.1
50°	1430.1	1426.7	1419.1	1417.5	1414.9
52.5°	1337.6	1335.9	1325.8	1325.0	1322.5
55°	1246.0	1236.7	1228.3	1228.3	1226.6
57.5°	1145.1	1138.3	1127.4	1127.4	1125.7
60°	1040.8	1034.9	1022.3	1024.0	1022.3
62.5°	939.1	926.5	914.7	919.8	915.6
65°	823.1	816.3	803.7	807.1	806.3
67.5°	717.1	704.5	692.8	699.5	696.1
70°	599.4	592.7	580.9	587.7	579.3
72.5°	488.5	482.6	470.8	478.4	470.0
75°	380.8	375.0	365.7	372.4	364.0
77.5°	279.1	274.9	266.5	273.2	274.9
80°	186.6	181.6	177.4	183.3	185.0
82.5°	109.3	105.9	104.3	105.1	109.3
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)