

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: P974666

Luminaire Tested: FLR2-24-72HE-L835-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974666
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-L835-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

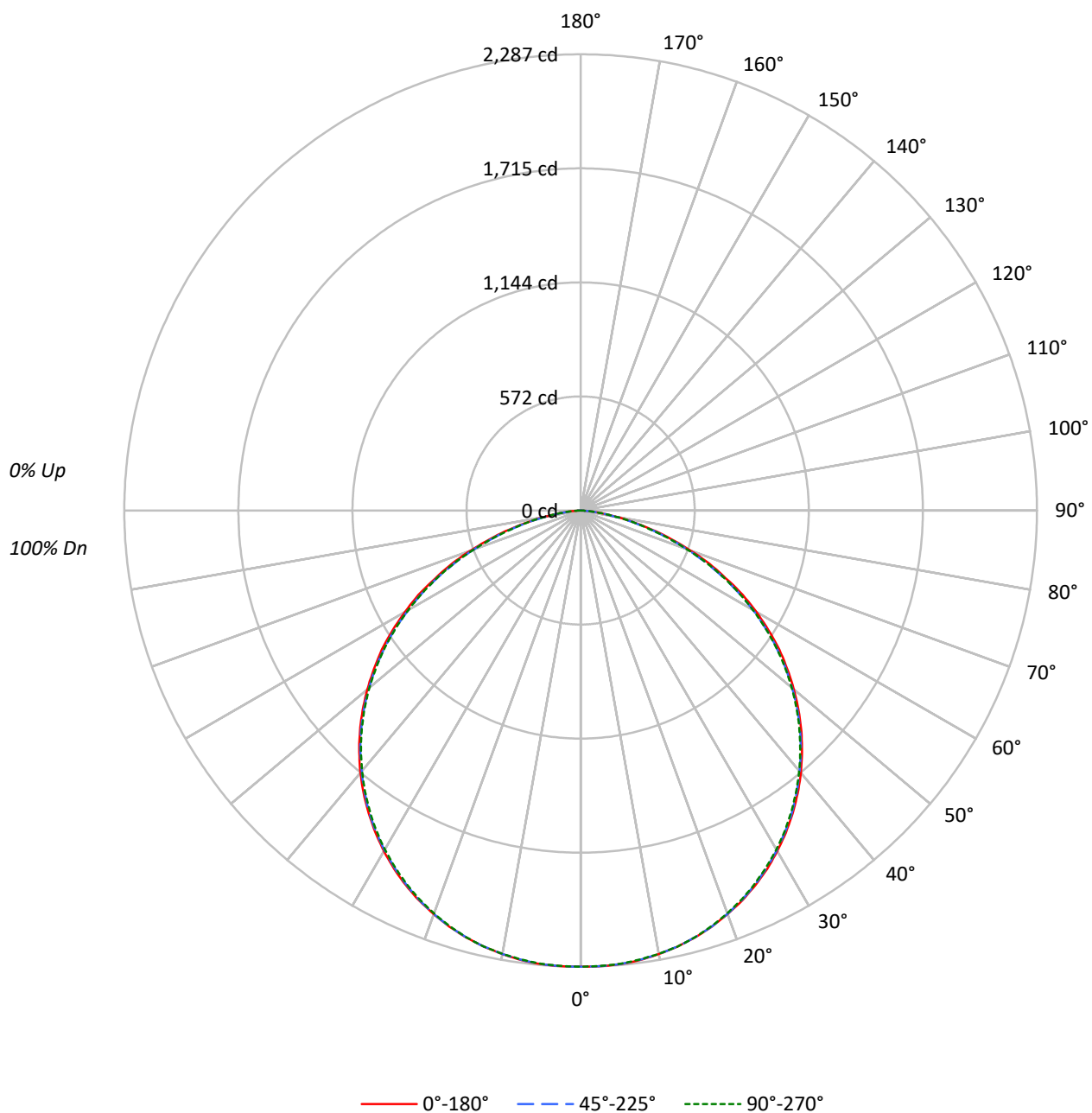
Lumens per Lamp: N/A
Luminaire Lumens: 6463.1 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3077	3077	3077
5°	3083	3083	3081
10°	3085	3084	3083
15°	3086	3085	3085
20°	3083	3082	3077
25°	3077	3071	3066
30°	3063	3054	3048
35°	3043	3035	3024
40°	3016	2998	2993
45°	2977	2960	2951
50°	2921	2899	2891
55°	2852	2812	2808
60°	2733	2685	2685
65°	2557	2497	2505
70°	2301	2231	2224
75°	1932	1855	1847
80°	1412	1341	1399
85°	798	735	747

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2977 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.1	3.4
10°-20°	625.3	9.7
20°-30°	953.4	14.8
30°-40°	1155.1	17.9
40°-50°	1199.9	18.6
50°-60°	1073.4	16.6
60°-70°	782.3	12.1
70°-80°	387.4	6.0
80°-90°	69.2	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°	1795.8	27.8
0°-40°	2950.9	45.7
0°-60°	5224.2	80.8
0°-90°	6463.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6463.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2287	2287	2287	2287	2287	
5°	2283	2284	2283	2283	2281	217
15°	2215	2215	2215	2216	2215	625
25°	2073	2070	2068	2068	2065	955
35°	1853	1850	1848	1844	1841	1159
45°	1565	1561	1556	1552	1551	1206
55°	1216	1207	1199	1199	1197	1083
65°	803	797	784	788	787	796
75°	372	366	357	364	355	396
85°	52	48	48	48	48	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2286.8	2286.8	2286.8	2286.8	2286.8
2.5°	2286.8	2286.0	2286.0	2286.8	2285.1
5°	2282.7	2283.5	2282.7	2282.7	2281.0
7.5°	2273.6	2272.8	2272.0	2272.8	2270.4
10°	2258.1	2258.1	2257.2	2258.1	2256.4
12.5°	2239.2	2239.2	2239.2	2240.0	2239.2
15°	2215.4	2214.6	2214.6	2216.2	2214.6
17.5°	2187.5	2186.7	2186.7	2185.9	2184.2
20°	2153.0	2153.0	2152.2	2151.4	2148.9
22.5°	2116.1	2115.3	2112.8	2112.8	2109.5
25°	2072.6	2070.2	2068.5	2067.7	2065.2
27.5°	2025.0	2021.7	2019.3	2017.6	2015.2
30°	1971.7	1968.4	1966.0	1963.5	1961.9
32.5°	1914.3	1912.6	1908.5	1907.7	1904.4
35°	1852.7	1850.3	1847.8	1844.5	1841.2
37.5°	1787.1	1784.6	1778.9	1777.2	1774.8
40°	1717.3	1714.1	1706.7	1706.7	1704.2
42.5°	1642.7	1639.4	1634.5	1631.2	1629.5
45°	1564.7	1561.4	1555.7	1552.4	1550.8
47.5°	1481.8	1479.4	1472.8	1470.4	1467.9
50°	1395.7	1392.4	1385.0	1383.4	1380.9
52.5°	1305.4	1303.8	1294.0	1293.1	1290.7
55°	1216.0	1207.0	1198.8	1198.8	1197.1
57.5°	1117.5	1111.0	1100.3	1100.3	1098.7
60°	1015.8	1010.1	997.7	999.4	997.7
62.5°	916.5	904.2	892.7	897.6	893.5
65°	803.3	796.7	784.4	787.7	786.9
67.5°	699.9	687.6	676.1	682.7	679.4
70°	585.0	578.5	567.0	573.5	565.3
72.5°	476.7	471.0	459.5	466.9	458.7
75°	371.7	365.9	356.9	363.5	355.3
77.5°	272.4	268.3	260.1	266.7	268.3
80°	182.2	177.2	173.1	178.9	180.5
82.5°	106.7	103.4	101.7	102.6	106.7
85°	51.7	47.6	47.6	48.4	48.4
87.5°	13.9	12.3	13.9	14.8	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)