

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: P974699

Luminaire Tested: FLR2-24-72HE-L835-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974699
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

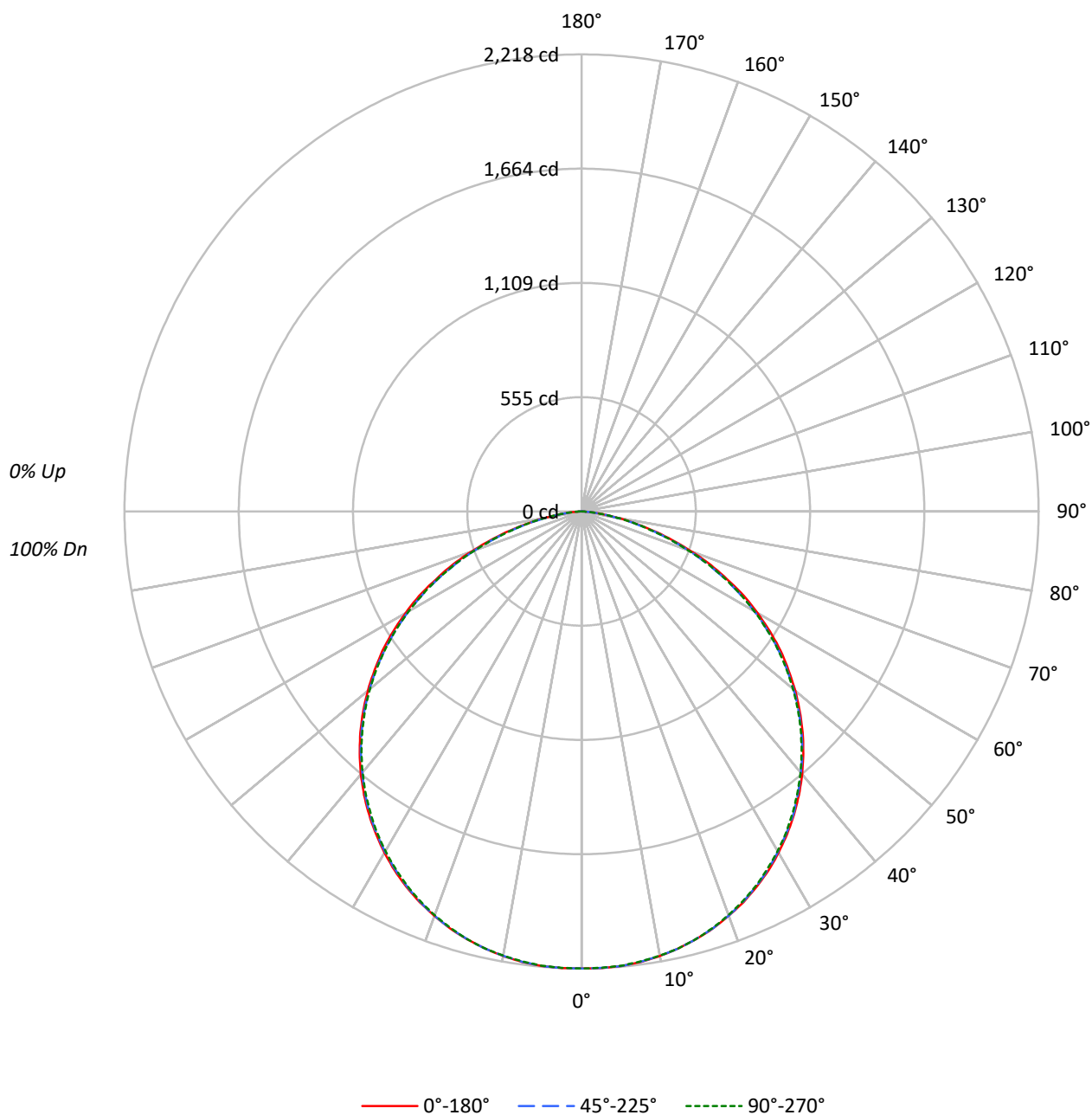
Lumens per Lamp: N/A
Luminaire Lumens: 6269.7 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2985	2985	2985
5°	2991	2991	2989
10°	2993	2992	2991
15°	2994	2992	2992
20°	2991	2989	2985
25°	2985	2979	2974
30°	2972	2963	2957
35°	2952	2944	2934
40°	2926	2908	2904
45°	2888	2872	2863
50°	2834	2812	2804
55°	2767	2728	2724
60°	2652	2605	2605
65°	2481	2422	2430
70°	2233	2164	2157
75°	1875	1800	1792
80°	1369	1301	1357
85°	773	713	726

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2888 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.6	3.4
10°-20°	606.6	9.7
20°-30°	924.9	14.8
30°-40°	1120.6	17.9
40°-50°	1164.0	18.6
50°-60°	1041.3	16.6
60°-70°	758.9	12.1
70°-80°	375.8	6.0
80°-90°	67.2	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°	1742.0	27.8
0°-40°	2862.6	45.7
0°-60°	5067.8	80.8
0°-90°	6269.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6269.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2218	2218	2218	2218	2218	
5°	2214	2215	2214	2214	2213	211
15°	2149	2148	2148	2150	2148	607
25°	2011	2008	2007	2006	2003	927
35°	1797	1795	1792	1789	1786	1124
45°	1518	1515	1509	1506	1504	1170
55°	1180	1171	1163	1163	1161	1051
65°	779	773	761	764	763	773
75°	361	355	346	353	345	384
85°	50	46	46	47	47	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2218.3	2218.3	2218.3	2218.3	2218.3
2.5°	2218.3	2217.5	2217.5	2218.3	2216.8
5°	2214.4	2215.2	2214.4	2214.4	2212.8
7.5°	2205.6	2204.8	2204.0	2204.8	2202.4
10°	2190.5	2190.5	2189.7	2190.5	2188.9
12.5°	2172.2	2172.2	2172.2	2173.0	2172.2
15°	2149.1	2148.3	2148.3	2149.9	2148.3
17.5°	2122.0	2121.2	2121.2	2120.4	2118.8
20°	2088.6	2088.6	2087.8	2087.0	2084.6
22.5°	2052.8	2052.0	2049.6	2049.6	2046.4
25°	2010.6	2008.2	2006.6	2005.8	2003.4
27.5°	1964.4	1961.2	1958.9	1957.3	1954.9
30°	1912.7	1909.5	1907.1	1904.7	1903.1
32.5°	1857.0	1855.4	1851.4	1850.6	1847.4
35°	1797.3	1794.9	1792.5	1789.3	1786.1
37.5°	1733.6	1731.2	1725.6	1724.1	1721.7
40°	1665.9	1662.8	1655.6	1655.6	1653.2
42.5°	1593.5	1590.3	1585.6	1582.4	1580.8
45°	1517.9	1514.7	1509.1	1506.0	1504.4
47.5°	1437.5	1435.1	1428.7	1426.4	1424.0
50°	1353.9	1350.7	1343.6	1342.0	1339.6
52.5°	1266.4	1264.8	1255.2	1254.4	1252.0
55°	1179.6	1170.9	1162.9	1162.9	1161.3
57.5°	1084.1	1077.7	1067.4	1067.4	1065.8
60°	985.4	979.8	967.9	969.5	967.9
62.5°	889.1	877.1	866.0	870.8	866.8
65°	779.2	772.9	760.9	764.1	763.3
67.5°	679.0	667.0	655.9	662.2	659.1
70°	567.5	561.2	550.0	556.4	548.4
72.5°	462.5	456.9	445.7	452.9	444.9
75°	360.6	355.0	346.2	352.6	344.7
77.5°	264.3	260.3	252.3	258.7	260.3
80°	176.7	171.9	167.9	173.5	175.1
82.5°	103.5	100.3	98.7	99.5	103.5
85°	50.1	46.2	46.2	47.0	47.0
87.5°	13.5	11.9	13.5	14.3	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)