

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: P975063

Luminaire Tested: FLR2-24-80HE-L950-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975063
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: FLR2-24-80HE-L950-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

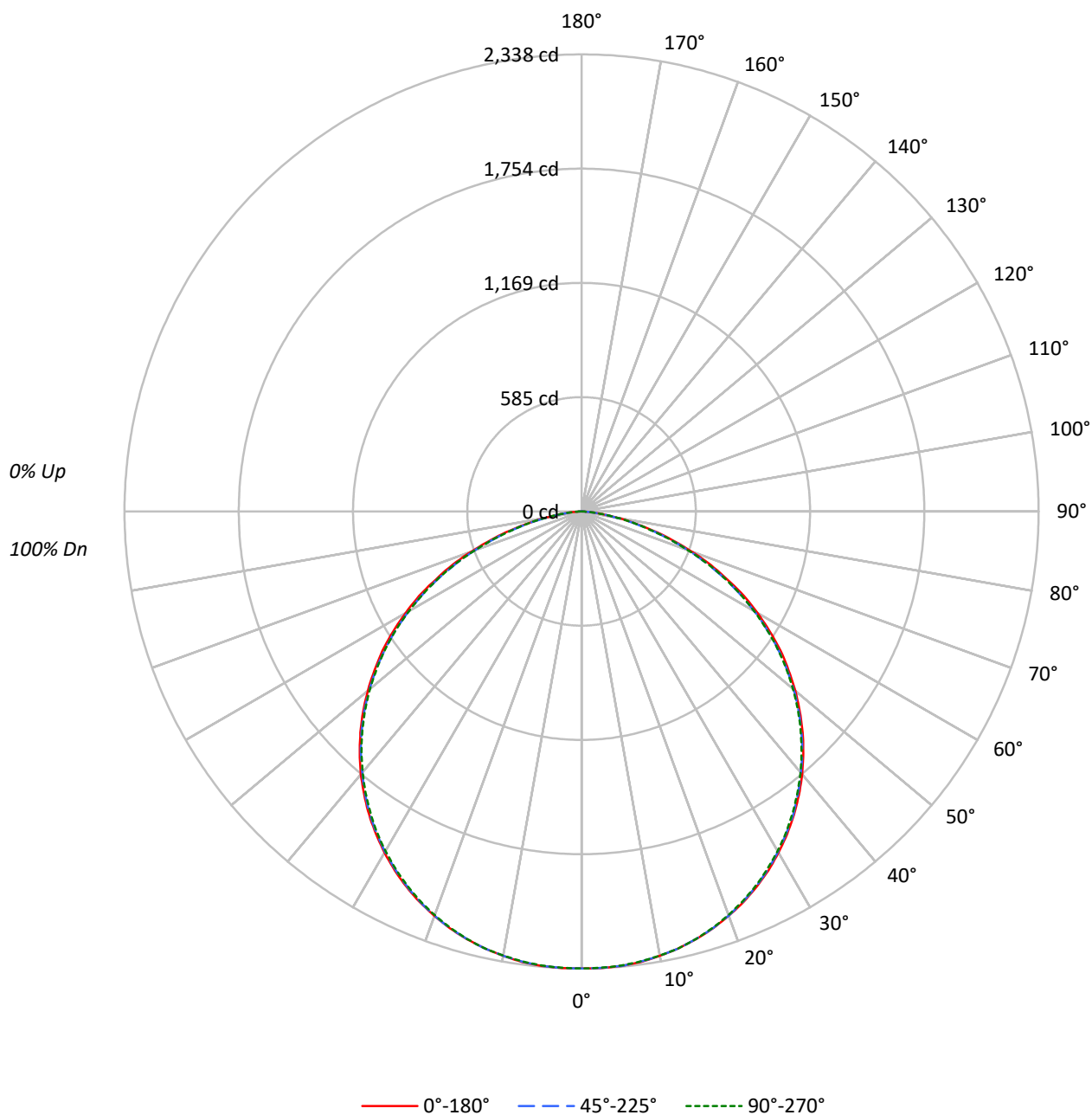
Lumens per Lamp: N/A
Luminaire Lumens: 6608.1 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 63.5
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°	3146	3146	3146
5°	3152	3152	3150
10°	3154	3153	3152
15°	3155	3154	3154
20°	3152	3151	3146
25°	3146	3140	3135
30°	3132	3123	3116
35°	3111	3103	3092
40°	3084	3065	3060
45°	3044	3027	3017
50°	2987	2964	2955
55°	2917	2875	2871
60°	2795	2745	2745
65°	2615	2553	2561
70°	2353	2281	2274
75°	1975	1897	1889
80°	1443	1371	1430
85°	817	752	764

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3044 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.9	3.4
10°-20°	639.3	9.7
20°-30°	974.8	14.8
30°-40°	1181.0	17.9
40°-50°	1226.8	18.6
50°-60°	1097.4	16.6
60°-70°	799.8	12.1
70°-80°	396.1	6.0
80°-90°	70.8	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°	1836.1	27.8
0°-40°	3017.1	45.7
0°-60°	5341.3	80.8
0°-90°	6608.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6608.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2338	2338	2338	2338	2338	
5°	2334	2335	2334	2334	2332	222
15°	2265	2264	2264	2266	2264	640
25°	2119	2117	2115	2114	2112	977
35°	1894	1892	1889	1886	1882	1185
45°	1600	1596	1591	1587	1586	1233
55°	1243	1234	1226	1226	1224	1108
65°	821	815	802	805	804	814
75°	380	374	365	372	363	405
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°	2338.1	2338.1	2338.1	2338.1	2338.1
2.5°	2338.1	2337.2	2337.2	2338.1	2336.4
5°	2333.9	2334.7	2333.9	2333.9	2332.2
7.5°	2324.6	2323.8	2323.0	2323.8	2321.3
10°	2308.7	2308.7	2307.9	2308.7	2307.0
12.5°	2289.4	2289.4	2289.4	2290.2	2289.4
15°	2265.1	2264.2	2264.2	2265.9	2264.2
17.5°	2236.5	2235.7	2235.7	2234.9	2233.2
20°	2201.3	2201.3	2200.5	2199.6	2197.1
22.5°	2163.6	2162.7	2160.2	2160.2	2156.9
25°	2119.1	2116.6	2114.9	2114.1	2111.5
27.5°	2070.4	2067.1	2064.6	2062.9	2060.4
30°	2015.9	2012.6	2010.0	2007.5	2005.8
32.5°	1957.2	1955.5	1951.3	1950.5	1947.1
35°	1894.3	1891.8	1889.2	1885.9	1882.5
37.5°	1827.2	1824.6	1818.8	1817.1	1814.6
40°	1755.8	1752.5	1744.9	1744.9	1742.4
42.5°	1679.5	1676.2	1671.1	1667.8	1666.1
45°	1599.8	1596.5	1590.6	1587.2	1585.5
47.5°	1515.1	1512.6	1505.9	1503.3	1500.8
50°	1427.0	1423.6	1416.1	1414.4	1411.9
52.5°	1334.7	1333.0	1323.0	1322.1	1319.6
55°	1243.3	1234.0	1225.7	1225.7	1224.0
57.5°	1142.6	1135.9	1125.0	1125.0	1123.3
60°	1038.6	1032.7	1020.1	1021.8	1020.1
62.5°	937.1	924.5	912.7	917.8	913.6
65°	821.3	814.6	802.0	805.4	804.5
67.5°	715.6	703.0	691.3	698.0	694.6
70°	598.1	591.4	579.7	586.4	578.0
72.5°	487.4	481.5	469.8	477.3	469.0
75°	380.0	374.2	364.9	371.6	363.3
77.5°	278.5	274.3	265.9	272.6	274.3
80°	186.2	181.2	177.0	182.9	184.6
82.5°	109.1	105.7	104.0	104.9	109.1
85°	52.9	48.7	48.7	49.5	49.5
87.5°	14.3	12.6	14.3	15.1	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)