

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: P974655

Luminaire Tested: FLR2-24-72HE-L930-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974655
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-L930-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

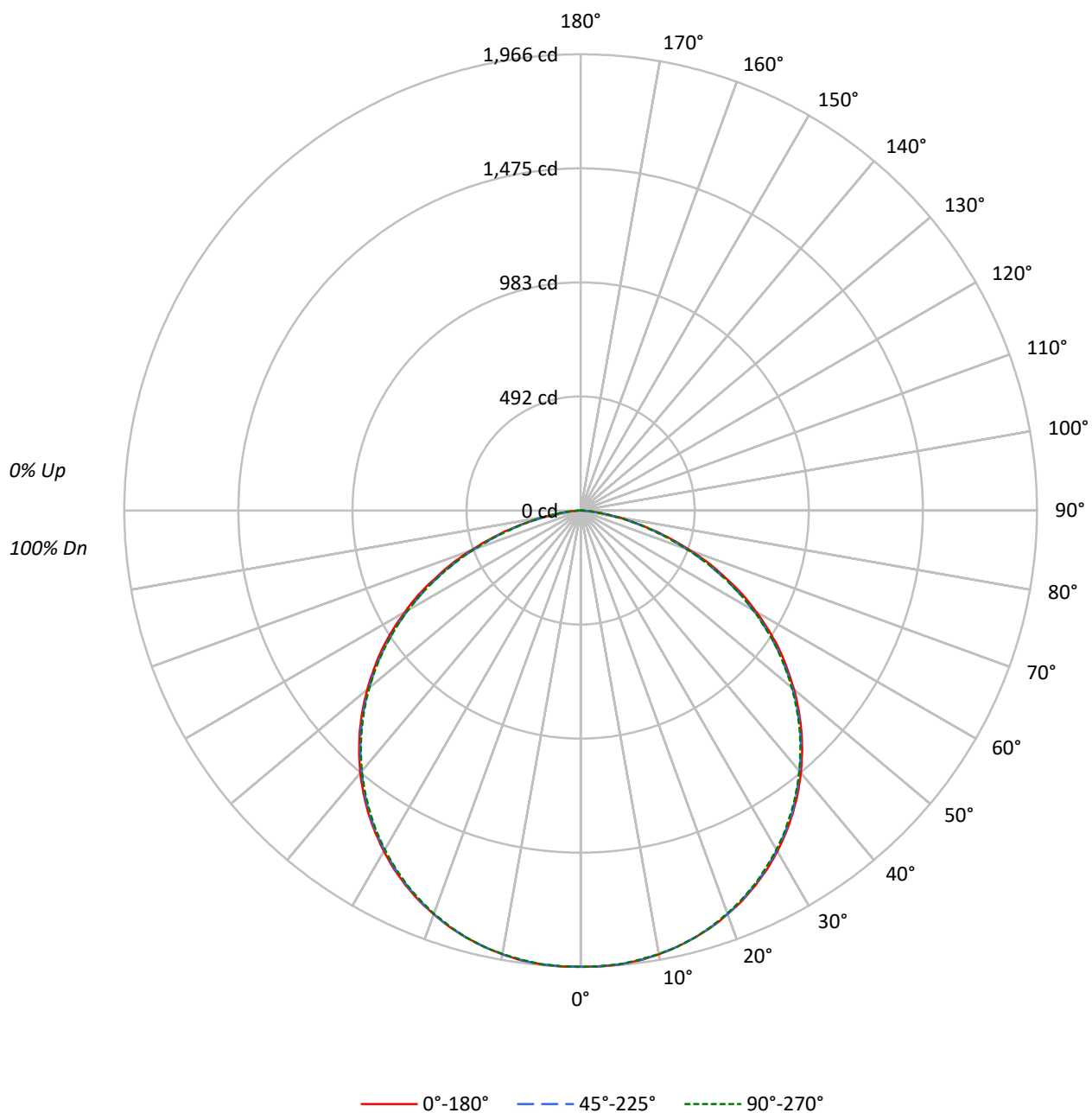
Lumens per Lamp: N/A
Luminaire Lumens: 5558.0 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2646	2646	2646
5°	2651	2651	2649
10°	2653	2652	2651
15°	2654	2653	2653
20°	2651	2650	2646
25°	2646	2641	2637
30°	2634	2627	2621
35°	2617	2610	2601
40°	2594	2578	2574
45°	2560	2546	2538
50°	2512	2493	2486
55°	2453	2418	2415
60°	2351	2309	2309
65°	2199	2148	2154
70°	1979	1918	1913
75°	1661	1595	1588
80°	1213	1154	1203
85°	687	631	642

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2560 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.7	3.4
10°-20°	537.8	9.7
20°-30°	819.9	14.8
30°-40°	993.4	17.9
40°-50°	1031.8	18.6
50°-60°	923.0	16.6
60°-70°	672.7	12.1
70°-80°	333.2	6.0
80°-90°	59.5	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°	1544.3	27.8
0°-40°	2537.7	45.7
0°-60°	4492.6	80.8
0°-90°	5558.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5558.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1966	1966	1966	1966	1966	
5°	1963	1964	1963	1963	1962	187
15°	1905	1904	1904	1906	1904	538
25°	1782	1780	1779	1778	1776	821
35°	1593	1591	1589	1586	1583	997
45°	1346	1343	1338	1335	1334	1037
55°	1046	1038	1031	1031	1030	932
65°	691	685	675	677	677	685
75°	320	315	307	313	306	341
85°	44	41	41	42	42	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1966.5	1966.5	1966.5	1966.5	1966.5
2.5°	1966.5	1965.8	1965.8	1966.5	1965.1
5°	1963.0	1963.7	1963.0	1963.0	1961.6
7.5°	1955.2	1954.5	1953.8	1954.5	1952.4
10°	1941.8	1941.8	1941.1	1941.8	1940.4
12.5°	1925.6	1925.6	1925.6	1926.3	1925.6
15°	1905.1	1904.4	1904.4	1905.9	1904.4
17.5°	1881.2	1880.5	1880.5	1879.7	1878.3
20°	1851.5	1851.5	1850.8	1850.1	1848.0
22.5°	1819.8	1819.1	1816.9	1816.9	1814.1
25°	1782.4	1780.3	1778.8	1778.1	1776.0
27.5°	1741.4	1738.6	1736.5	1735.1	1733.0
30°	1695.6	1692.8	1690.6	1688.5	1687.1
32.5°	1646.2	1644.8	1641.3	1640.5	1637.7
35°	1593.3	1591.2	1589.0	1586.2	1583.4
37.5°	1536.8	1534.7	1529.8	1528.4	1526.2
40°	1476.8	1474.0	1467.7	1467.7	1465.6
42.5°	1412.6	1409.8	1405.6	1402.8	1401.3
45°	1345.6	1342.8	1337.8	1335.0	1333.6
47.5°	1274.3	1272.2	1266.6	1264.5	1262.3
50°	1200.2	1197.4	1191.1	1189.7	1187.5
52.5°	1122.6	1121.2	1112.7	1112.0	1109.9
55°	1045.7	1038.0	1030.9	1030.9	1029.5
57.5°	961.0	955.4	946.2	946.2	944.8
60°	873.5	868.6	858.0	859.4	858.0
62.5°	788.2	777.6	767.7	771.9	768.4
65°	690.8	685.1	674.6	677.4	676.7
67.5°	601.9	591.3	581.4	587.1	584.2
70°	503.1	497.5	487.6	493.2	486.2
72.5°	410.0	405.0	395.1	401.5	394.4
75°	319.6	314.7	306.9	312.6	305.5
77.5°	234.3	230.7	223.7	229.3	230.7
80°	156.6	152.4	148.9	153.8	155.2
82.5°	91.7	88.9	87.5	88.2	91.7
85°	44.5	40.9	40.9	41.6	41.6
87.5°	12.0	10.6	12.0	12.7	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)