

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: P975073

Luminaire Tested: FLR2-24-72HE-L950-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975073
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-L950-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

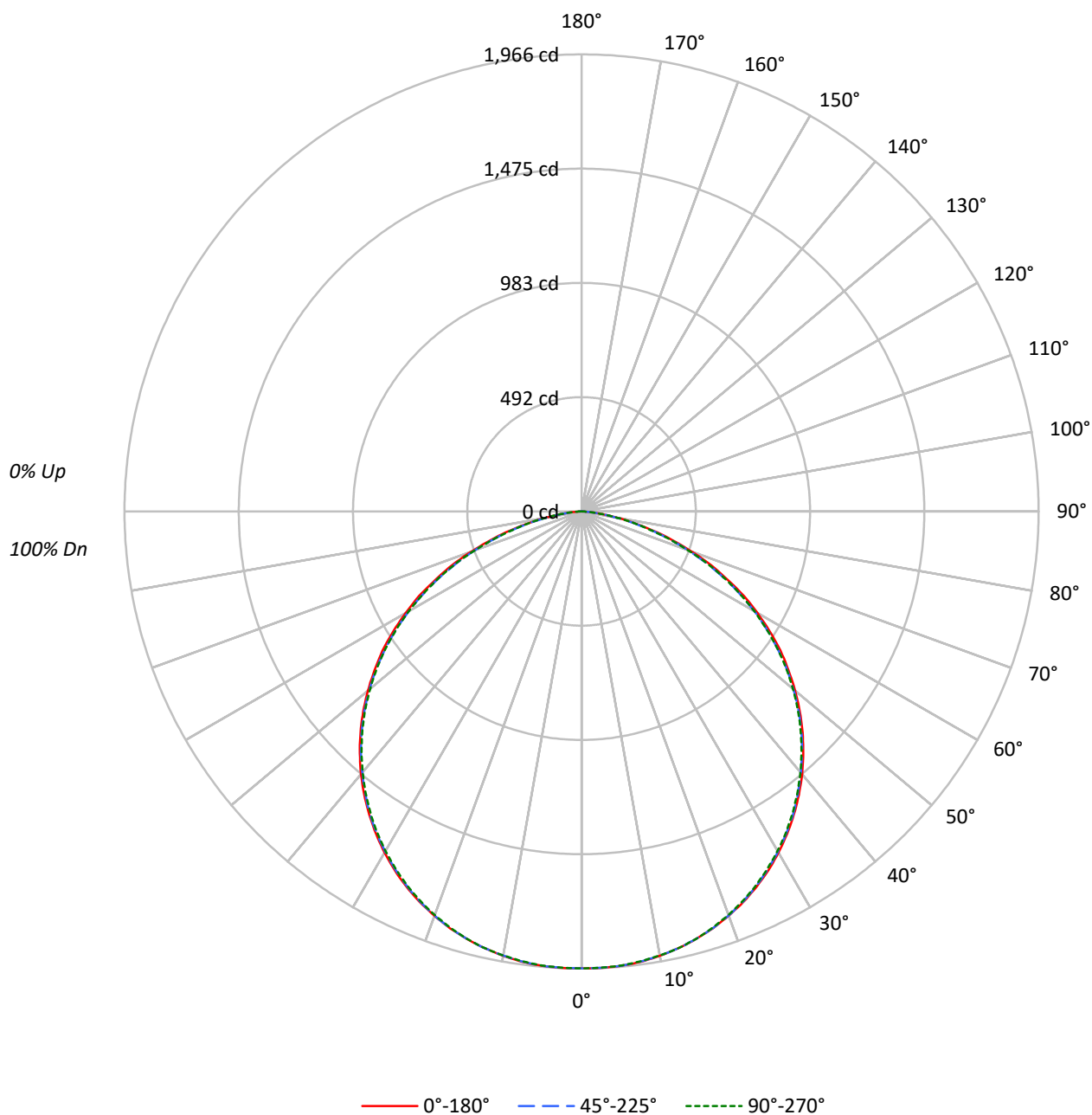
Lumens per Lamp: N/A
Luminaire Lumens: 5555.5 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2645	2645	2645
5°	2650	2650	2648
10°	2652	2651	2650
15°	2653	2652	2652
20°	2650	2649	2645
25°	2645	2640	2635
30°	2633	2625	2620
35°	2616	2609	2600
40°	2593	2577	2573
45°	2559	2544	2536
50°	2511	2492	2485
55°	2452	2417	2414
60°	2349	2308	2308
65°	2198	2146	2153
70°	1978	1917	1912
75°	1661	1595	1588
80°	1213	1153	1203
85°	685	631	642

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2559 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	3.4
10°-20°	537.5	9.7
20°-30°	819.5	14.8
30°-40°	992.9	17.9
40°-50°	1031.4	18.6
50°-60°	922.6	16.6
60°-70°	672.4	12.1
70°-80°	333.0	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°	1543.6	27.8
0°-40°	2536.5	45.7
0°-60°	4490.5	80.8
0°-90°	5555.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5555.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1966	1966	1966	1966	1966	
5°	1962	1963	1962	1962	1961	187
15°	1904	1904	1904	1905	1904	538
25°	1782	1779	1778	1777	1775	821
35°	1592	1590	1588	1586	1583	996
45°	1345	1342	1337	1334	1333	1037
55°	1045	1038	1030	1030	1029	931
65°	690	685	674	677	676	685
75°	320	315	307	312	305	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°	1965.6	1965.6	1965.6	1965.6	1965.6
2.5°	1965.6	1964.9	1964.9	1965.6	1964.2
5°	1962.1	1962.8	1962.1	1962.1	1960.7
7.5°	1954.3	1953.6	1952.9	1953.6	1951.5
10°	1940.9	1940.9	1940.2	1940.9	1939.5
12.5°	1924.7	1924.7	1924.7	1925.4	1924.7
15°	1904.3	1903.6	1903.6	1905.0	1903.6
17.5°	1880.3	1879.6	1879.6	1878.9	1877.5
20°	1850.7	1850.7	1850.0	1849.2	1847.1
22.5°	1818.9	1818.2	1816.1	1816.1	1813.3
25°	1781.5	1779.4	1778.0	1777.3	1775.2
27.5°	1740.6	1737.8	1735.7	1734.3	1732.2
30°	1694.8	1692.0	1689.9	1687.7	1686.3
32.5°	1645.4	1644.0	1640.5	1639.8	1637.0
35°	1592.5	1590.4	1588.3	1585.5	1582.7
37.5°	1536.1	1534.0	1529.0	1527.6	1525.5
40°	1476.2	1473.3	1467.0	1467.0	1464.9
42.5°	1412.0	1409.2	1404.9	1402.1	1400.7
45°	1345.0	1342.2	1337.2	1334.4	1333.0
47.5°	1273.7	1271.6	1266.0	1263.9	1261.7
50°	1199.7	1196.9	1190.5	1189.1	1187.0
52.5°	1122.1	1120.7	1112.2	1111.5	1109.4
55°	1045.2	1037.5	1030.4	1030.4	1029.0
57.5°	960.6	955.0	945.8	945.8	944.4
60°	873.1	868.2	857.6	859.0	857.6
62.5°	787.8	777.2	767.3	771.6	768.1
65°	690.5	684.8	674.2	677.1	676.4
67.5°	601.6	591.0	581.2	586.8	584.0
70°	502.9	497.2	487.3	493.0	485.9
72.5°	409.8	404.8	395.0	401.3	394.3
75°	319.5	314.6	306.8	312.4	305.4
77.5°	234.2	230.6	223.6	229.2	230.6
80°	156.6	152.3	148.8	153.8	155.2
82.5°	91.7	88.9	87.5	88.2	91.7
85°	44.4	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)