

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: P974908

Luminaire Tested: FLR2-24-72HE-L940-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974908
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-L940-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

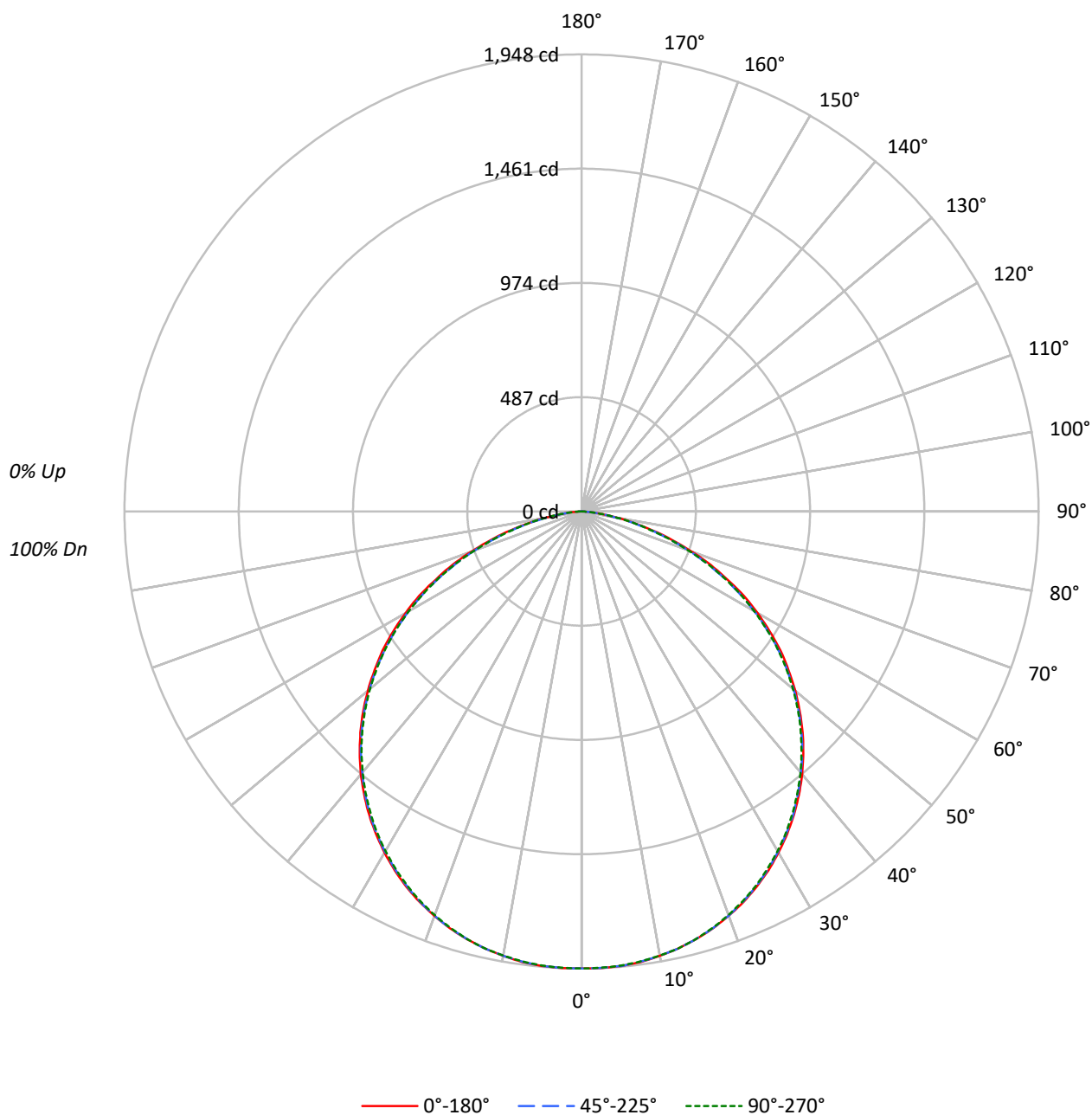
Lumens per Lamp: N/A
Luminaire Lumens: 5505.9 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2621	2621	2621
5°	2626	2626	2625
10°	2628	2627	2626
15°	2629	2628	2628
20°	2626	2625	2621
25°	2621	2616	2612
30°	2610	2602	2597
35°	2592	2586	2576
40°	2570	2554	2550
45°	2536	2522	2514
50°	2489	2470	2462
55°	2430	2396	2392
60°	2329	2287	2287
65°	2179	2127	2134
70°	1961	1900	1895
75°	1646	1581	1574
80°	1203	1143	1192
85°	679	625	636

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2536 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.9	3.4
10°-20°	532.7	9.7
20°-30°	812.2	14.8
30°-40°	984.0	17.9
40°-50°	1022.2	18.6
50°-60°	914.4	16.6
60°-70°	666.4	12.1
70°-80°	330.1	6.0
80°-90°	59.0	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°	1529.8	27.8
0°-40°	2513.9	45.7
0°-60°	4450.4	80.8
0°-90°	5505.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5505.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1948	1948	1948	1948	1948	
5°	1945	1945	1945	1945	1943	185
15°	1887	1887	1887	1888	1887	533
25°	1766	1764	1762	1762	1759	814
35°	1578	1576	1574	1571	1568	987
45°	1333	1330	1325	1322	1321	1027
55°	1036	1028	1021	1021	1020	923
65°	684	679	668	671	670	678
75°	317	312	304	310	303	338
85°	44	40	40	41	41	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1948.1	1948.1	1948.1	1948.1	1948.1
2.5°	1948.1	1947.4	1947.4	1948.1	1946.7
5°	1944.6	1945.3	1944.6	1944.6	1943.2
7.5°	1936.9	1936.2	1935.5	1936.2	1934.1
10°	1923.6	1923.6	1922.9	1923.6	1922.2
12.5°	1907.5	1907.5	1907.5	1908.2	1907.5
15°	1887.3	1886.6	1886.6	1888.0	1886.6
17.5°	1863.5	1862.8	1862.8	1862.1	1860.7
20°	1834.2	1834.2	1833.5	1832.8	1830.7
22.5°	1802.7	1802.0	1799.9	1799.9	1797.1
25°	1765.7	1763.6	1762.2	1761.5	1759.4
27.5°	1725.1	1722.3	1720.2	1718.8	1716.7
30°	1679.7	1676.9	1674.8	1672.7	1671.3
32.5°	1630.7	1629.3	1625.9	1625.2	1622.4
35°	1578.3	1576.2	1574.1	1571.3	1568.5
37.5°	1522.4	1520.3	1515.4	1514.0	1511.9
40°	1463.0	1460.2	1453.9	1453.9	1451.8
42.5°	1399.4	1396.6	1392.4	1389.6	1388.2
45°	1333.0	1330.2	1325.3	1322.5	1321.1
47.5°	1262.4	1260.3	1254.7	1252.6	1250.5
50°	1189.0	1186.2	1179.9	1178.5	1176.4
52.5°	1112.1	1110.7	1102.3	1101.6	1099.5
55°	1035.9	1028.2	1021.2	1021.2	1019.8
57.5°	952.0	946.4	937.3	937.3	935.9
60°	865.4	860.5	850.0	851.4	850.0
62.5°	780.8	770.3	760.5	764.7	761.2
65°	684.3	678.7	668.2	671.0	670.3
67.5°	596.2	585.8	576.0	581.6	578.8
70°	498.4	492.8	483.0	488.6	481.6
72.5°	406.1	401.2	391.4	397.7	390.7
75°	316.6	311.8	304.1	309.7	302.7
77.5°	232.1	228.6	221.6	227.2	228.6
80°	155.2	151.0	147.5	152.4	153.8
82.5°	90.9	88.1	86.7	87.4	90.9
85°	44.0	40.5	40.5	41.2	41.2
87.5°	11.9	10.5	11.9	12.6	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)