

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: P974743

Luminaire Tested: FLR2-24-72HE-L935-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974743
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-L935-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

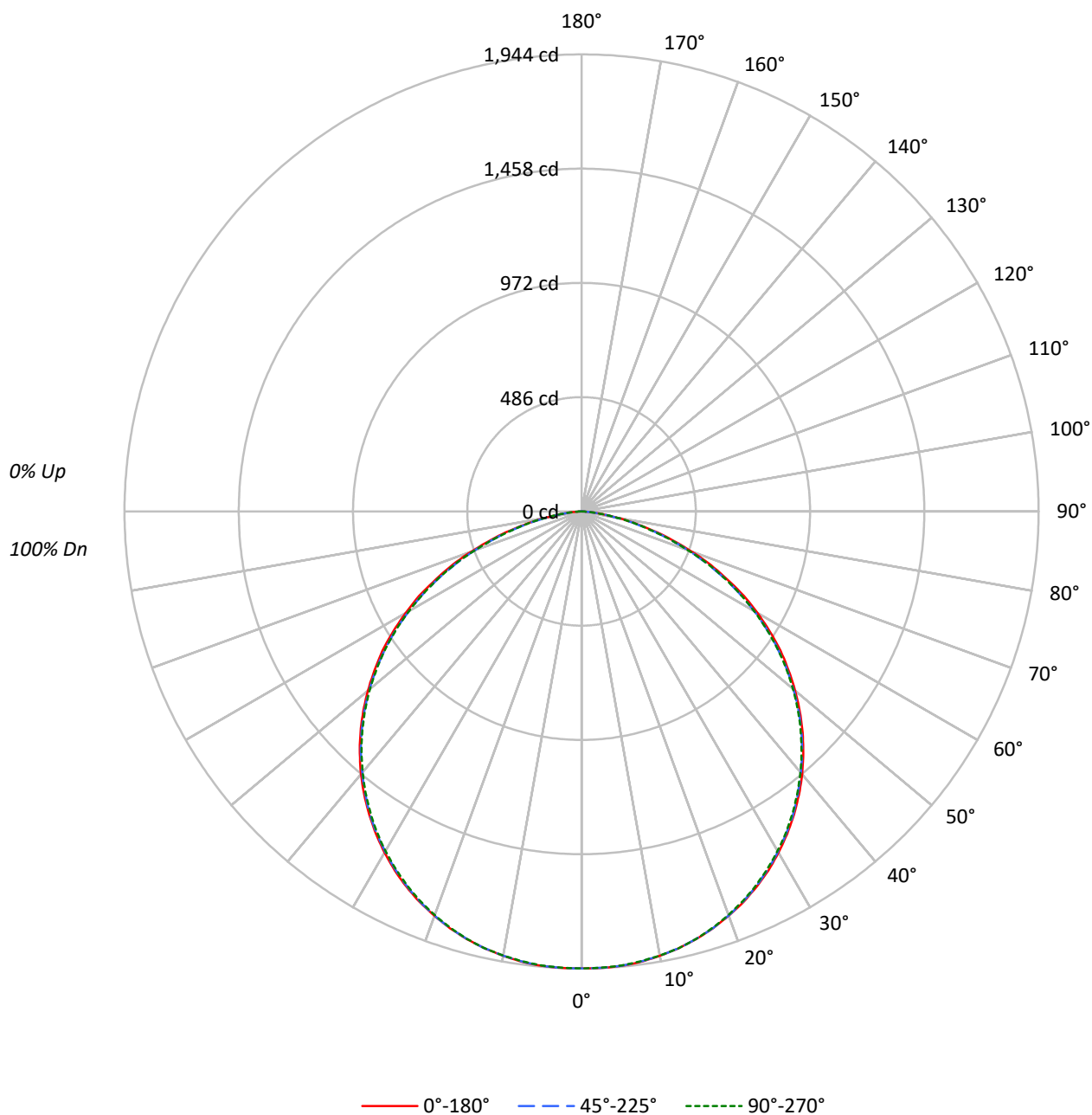
Lumens per Lamp: N/A
Luminaire Lumens: 5493.7 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2615	2615	2615
5°	2621	2621	2619
10°	2622	2621	2620
15°	2623	2622	2622
20°	2620	2619	2615
25°	2615	2610	2606
30°	2604	2596	2591
35°	2587	2580	2571
40°	2564	2548	2544
45°	2531	2516	2508
50°	2483	2464	2457
55°	2425	2390	2387
60°	2323	2282	2282
65°	2174	2123	2129
70°	1956	1896	1890
75°	1642	1577	1570
80°	1199	1141	1189
85°	678	625	634

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2531 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.5	3.4
10°-20°	531.5	9.7
20°-30°	810.4	14.8
30°-40°	981.8	17.9
40°-50°	1019.9	18.6
50°-60°	912.4	16.6
60°-70°	664.9	12.1
70°-80°	329.3	6.0
80°-90°	58.9	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°	1526.4	27.8
0°-40°	2508.3	45.7
0°-60°	4440.5	80.8
0°-90°	5493.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5493.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1944	1944	1944	1944	1944	
5°	1940	1941	1940	1940	1939	185
15°	1883	1882	1882	1884	1882	532
25°	1762	1760	1758	1758	1755	812
35°	1575	1573	1571	1568	1565	985
45°	1330	1327	1322	1320	1318	1025
55°	1034	1026	1019	1019	1018	921
65°	683	677	667	670	669	677
75°	316	311	303	309	302	337
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°	1943.8	1943.8	1943.8	1943.8	1943.8
2.5°	1943.8	1943.1	1943.1	1943.8	1942.4
5°	1940.3	1941.0	1940.3	1940.3	1938.9
7.5°	1932.6	1931.9	1931.2	1931.9	1929.8
10°	1919.3	1919.3	1918.6	1919.3	1918.0
12.5°	1903.3	1903.3	1903.3	1904.0	1903.3
15°	1883.1	1882.4	1882.4	1883.8	1882.4
17.5°	1859.4	1858.7	1858.7	1858.0	1856.6
20°	1830.1	1830.1	1829.4	1828.7	1826.6
22.5°	1798.7	1798.0	1795.9	1795.9	1793.1
25°	1761.7	1759.6	1758.2	1757.5	1755.4
27.5°	1721.3	1718.5	1716.4	1715.0	1712.9
30°	1675.9	1673.2	1671.1	1669.0	1667.6
32.5°	1627.1	1625.7	1622.2	1621.5	1618.8
35°	1574.8	1572.7	1570.6	1567.8	1565.0
37.5°	1519.0	1516.9	1512.0	1510.6	1508.6
40°	1459.7	1456.9	1450.7	1450.7	1448.6
42.5°	1396.3	1393.5	1389.3	1386.5	1385.1
45°	1330.0	1327.2	1322.3	1319.6	1318.2
47.5°	1259.6	1257.5	1251.9	1249.8	1247.7
50°	1186.3	1183.6	1177.3	1175.9	1173.8
52.5°	1109.6	1108.2	1099.9	1099.2	1097.1
55°	1033.6	1025.9	1019.0	1019.0	1017.6
57.5°	949.9	944.3	935.3	935.3	933.9
60°	863.4	858.5	848.1	849.5	848.1
62.5°	779.0	768.6	758.8	763.0	759.5
65°	682.8	677.2	666.8	669.5	668.8
67.5°	594.9	584.5	574.7	580.3	577.5
70°	497.3	491.7	481.9	487.5	480.5
72.5°	405.2	400.3	390.6	396.8	389.9
75°	315.9	311.1	303.4	309.0	302.0
77.5°	231.5	228.1	221.1	226.7	228.1
80°	154.8	150.6	147.2	152.0	153.4
82.5°	90.7	87.9	86.5	87.2	90.7
85°	43.9	40.5	40.5	41.1	41.1
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)