

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: P974610

Luminaire Tested: FLR2-24-65HE-L930-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974610
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: FLR2-24-65HE-L930-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

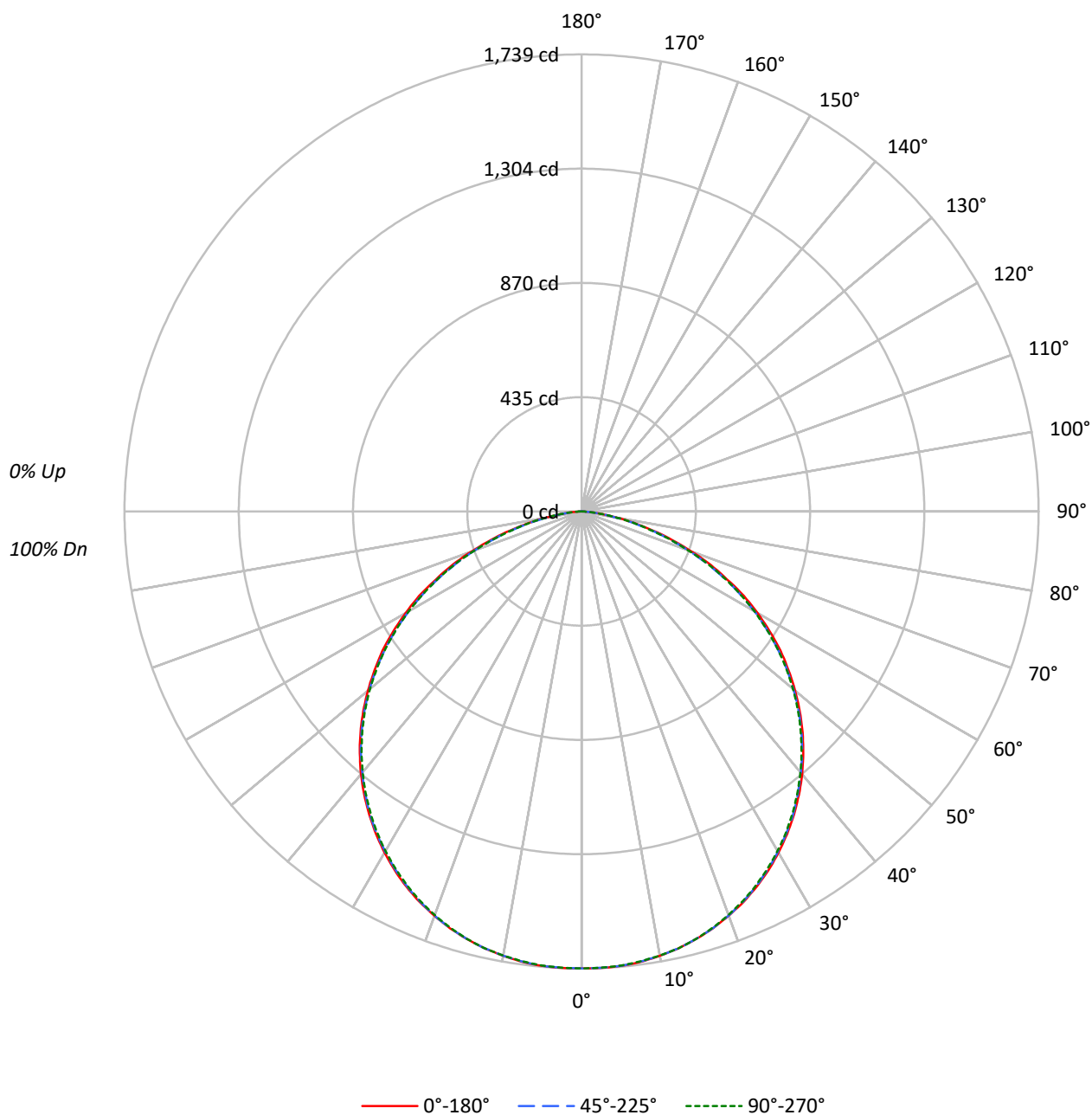
Lumens per Lamp: N/A
Luminaire Lumens: 4914.3 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.9
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°	2340	2340	2340
5°	2344	2344	2343
10°	2346	2345	2344
15°	2346	2346	2346
20°	2344	2343	2340
25°	2340	2335	2331
30°	2329	2322	2318
35°	2314	2308	2300
40°	2294	2279	2276
45°	2264	2251	2244
50°	2221	2204	2198
55°	2169	2138	2135
60°	2079	2041	2041
65°	1945	1899	1905
70°	1750	1696	1691
75°	1469	1411	1404
80°	1073	1020	1064
85°	607	559	568

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2264 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.0	3.4
10°-20°	475.5	9.7
20°-30°	724.9	14.8
30°-40°	878.3	17.9
40°-50°	912.3	18.6
50°-60°	816.1	16.6
60°-70°	594.8	12.1
70°-80°	294.6	6.0
80°-90°	52.7	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°	1365.4	27.8
0°-40°	2243.8	45.7
0°-60°	3972.2	80.8
0°-90°	4914.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4914.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1739	1739	1739	1739	1739	
5°	1736	1736	1736	1736	1734	165
15°	1684	1684	1684	1685	1684	476
25°	1576	1574	1573	1572	1570	726
35°	1409	1407	1405	1402	1400	881
45°	1190	1187	1183	1180	1179	917
55°	925	918	912	912	910	824
65°	611	606	596	599	598	606
75°	283	278	271	276	270	301
85°	39	36	36	37	37	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1738.8	1738.8	1738.8	1738.8	1738.8
2.5°	1738.8	1738.1	1738.1	1738.8	1737.5
5°	1735.6	1736.3	1735.6	1735.6	1734.4
7.5°	1728.8	1728.2	1727.5	1728.2	1726.3
10°	1716.9	1716.9	1716.3	1716.9	1715.7
12.5°	1702.6	1702.6	1702.6	1703.2	1702.6
15°	1684.5	1683.9	1683.9	1685.1	1683.9
17.5°	1663.3	1662.7	1662.7	1662.0	1660.8
20°	1637.1	1637.1	1636.5	1635.8	1634.0
22.5°	1609.0	1608.4	1606.5	1606.5	1604.0
25°	1575.9	1574.1	1572.8	1572.2	1570.3
27.5°	1539.7	1537.3	1535.4	1534.1	1532.3
30°	1499.2	1496.7	1494.8	1493.0	1491.7
32.5°	1455.5	1454.3	1451.2	1450.5	1448.0
35°	1408.7	1406.9	1405.0	1402.5	1400.0
37.5°	1358.8	1357.0	1352.6	1351.3	1349.5
40°	1305.8	1303.3	1297.7	1297.7	1295.8
42.5°	1249.0	1246.5	1242.8	1240.3	1239.0
45°	1189.7	1187.3	1182.9	1180.4	1179.1
47.5°	1126.7	1124.9	1119.9	1118.0	1116.1
50°	1061.2	1058.7	1053.1	1051.9	1050.0
52.5°	992.6	991.4	983.9	983.2	981.4
55°	924.6	917.7	911.5	911.5	910.2
57.5°	849.7	844.7	836.6	836.6	835.4
60°	772.4	768.0	758.6	759.9	758.6
62.5°	696.9	687.5	678.8	682.5	679.4
65°	610.8	605.8	596.4	598.9	598.3
67.5°	532.2	522.8	514.1	519.1	516.6
70°	444.8	439.8	431.1	436.1	429.9
72.5°	362.5	358.1	349.4	355.0	348.8
75°	282.6	278.3	271.4	276.4	270.1
77.5°	207.1	204.0	197.8	202.8	204.0
80°	138.5	134.8	131.6	136.0	137.3
82.5°	81.1	78.6	77.4	78.0	81.1
85°	39.3	36.2	36.2	36.8	36.8
87.5°	10.6	9.4	10.6	11.2	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)