

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: P974786

Luminaire Tested: FLR2-24-65HE-L935-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974786
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-L935-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

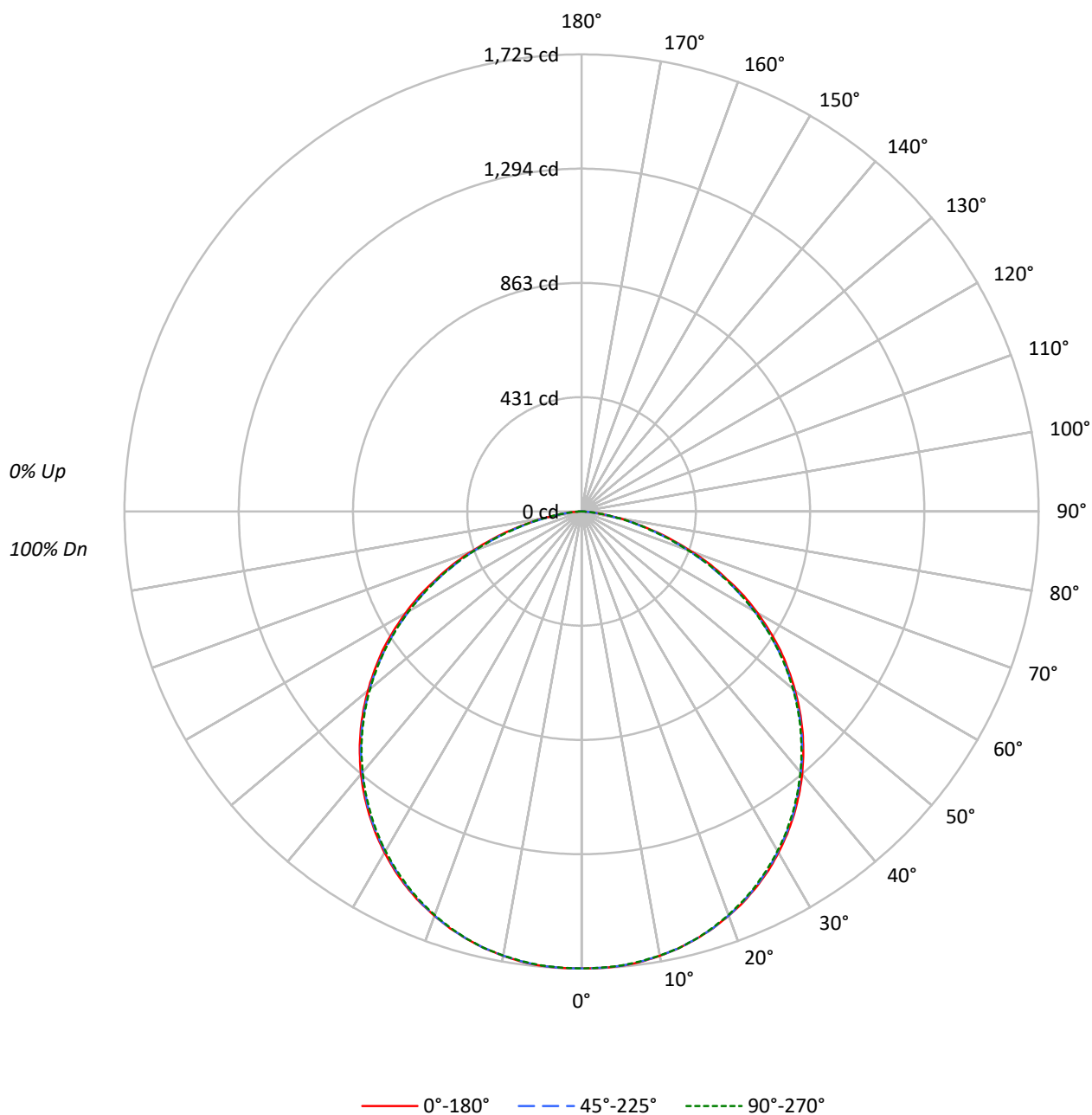
Lumens per Lamp: N/A
Luminaire Lumens: 4874.7 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	2321	2321	2321
5°	2325	2325	2324
10°	2327	2326	2325
15°	2327	2327	2327
20°	2325	2324	2321
25°	2321	2316	2313
30°	2310	2304	2299
35°	2295	2289	2281
40°	2275	2261	2258
45°	2246	2233	2226
50°	2204	2187	2180
55°	2152	2121	2118
60°	2062	2025	2025
65°	1929	1883	1890
70°	1736	1682	1677
75°	1457	1399	1393
80°	1065	1012	1055
85°	602	554	563

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2246 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.7	3.4
10°-20°	471.6	9.7
20°-30°	719.1	14.8
30°-40°	871.2	17.9
40°-50°	905.0	18.6
50°-60°	809.6	16.6
60°-70°	590.0	12.1
70°-80°	292.2	6.0
80°-90°	52.2	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°	1354.5	27.8
0°-40°	2225.7	45.7
0°-60°	3940.3	80.8
0°-90°	4874.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4874.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1725	1725	1725	1725	1725	
5°	1722	1722	1722	1722	1720	164
15°	1671	1670	1670	1672	1670	472
25°	1563	1561	1560	1560	1558	720
35°	1397	1396	1394	1391	1389	874
45°	1180	1178	1173	1171	1170	910
55°	917	910	904	904	903	817
65°	606	601	592	594	594	601
75°	280	276	269	274	268	299
85°	39	36	36	36	36	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1724.8	1724.8	1724.8	1724.8	1724.8
2.5°	1724.8	1724.2	1724.2	1724.8	1723.5
5°	1721.7	1722.3	1721.7	1721.7	1720.4
7.5°	1714.9	1714.3	1713.6	1714.3	1712.4
10°	1703.1	1703.1	1702.5	1703.1	1701.9
12.5°	1688.9	1688.9	1688.9	1689.5	1688.9
15°	1670.9	1670.3	1670.3	1671.6	1670.3
17.5°	1649.9	1649.3	1649.3	1648.7	1647.4
20°	1623.9	1623.9	1623.3	1622.7	1620.8
22.5°	1596.1	1595.4	1593.6	1593.6	1591.1
25°	1563.3	1561.4	1560.2	1559.5	1557.7
27.5°	1527.4	1524.9	1523.0	1521.8	1519.9
30°	1487.1	1484.7	1482.8	1480.9	1479.7
32.5°	1443.8	1442.6	1439.5	1438.9	1436.4
35°	1397.4	1395.5	1393.7	1391.2	1388.7
37.5°	1347.9	1346.0	1341.7	1340.5	1338.6
40°	1295.3	1292.8	1287.2	1287.2	1285.4
42.5°	1239.0	1236.5	1232.8	1230.3	1229.1
45°	1180.2	1177.7	1173.4	1170.9	1169.7
47.5°	1117.7	1115.8	1110.9	1109.0	1107.1
50°	1052.7	1050.2	1044.6	1043.4	1041.5
52.5°	984.6	983.4	975.9	975.3	973.5
55°	917.2	910.3	904.2	904.2	902.9
57.5°	842.9	837.9	829.9	829.9	828.7
60°	766.2	761.8	752.5	753.8	752.5
62.5°	691.3	682.0	673.3	677.0	673.9
65°	605.9	600.9	591.6	594.1	593.5
67.5°	527.9	518.6	509.9	514.9	512.4
70°	441.3	436.3	427.6	432.6	426.4
72.5°	359.6	355.2	346.6	352.1	345.9
75°	280.3	276.0	269.2	274.2	268.0
77.5°	205.5	202.4	196.2	201.1	202.4
80°	137.4	133.7	130.6	134.9	136.2
82.5°	80.5	78.0	76.7	77.4	80.5
85°	39.0	35.9	35.9	36.5	36.5
87.5°	10.5	9.3	10.5	11.1	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)