

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: P974599

Luminaire Tested: FLR2-24-65HE-L930-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974599
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-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

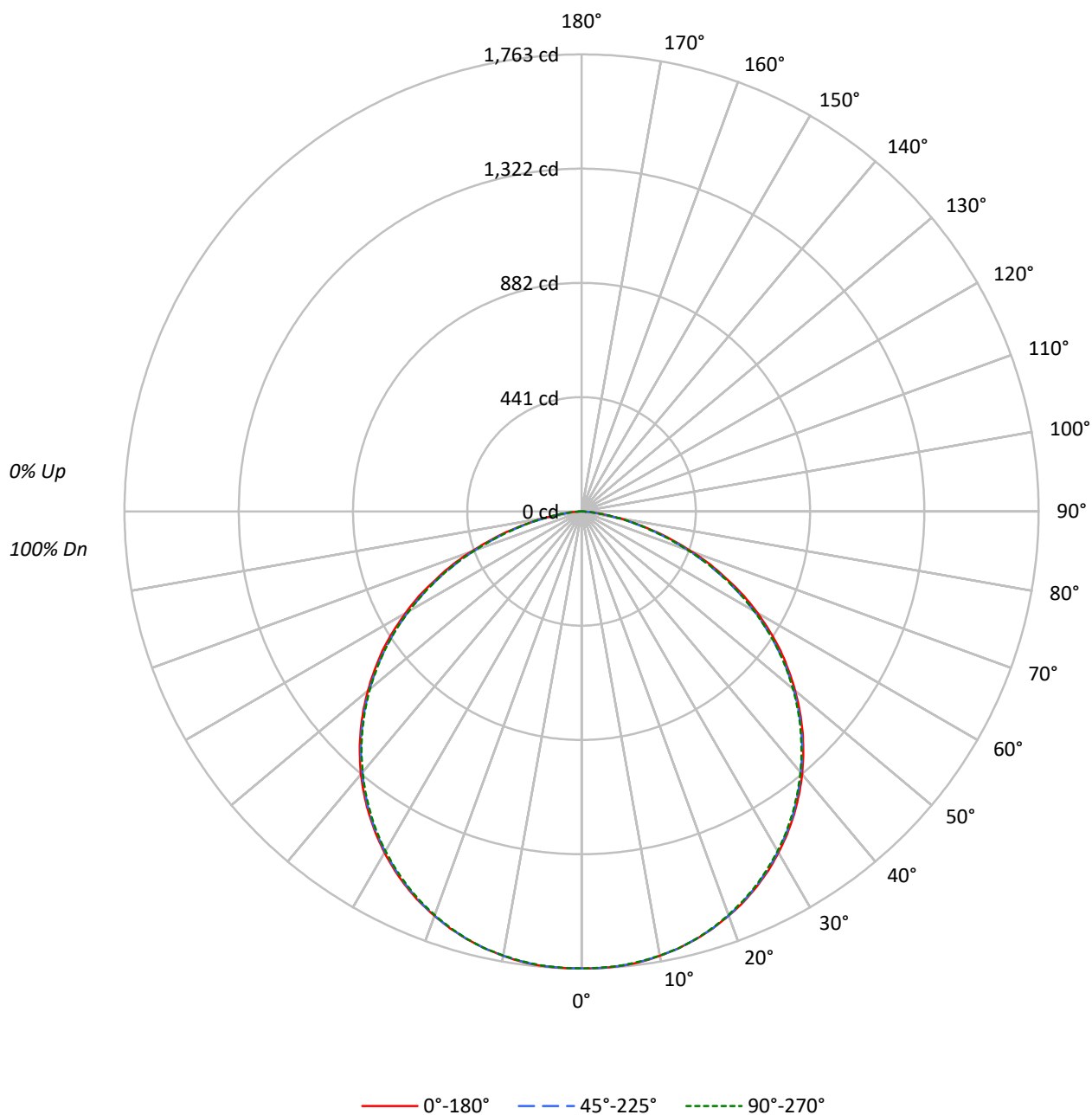
Lumens per Lamp: N/A
Luminaire Lumens: 4982.4 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2372	2372	2372
5°	2377	2377	2375
10°	2378	2377	2377
15°	2379	2378	2378
20°	2377	2376	2372
25°	2372	2367	2364
30°	2362	2355	2350
35°	2346	2340	2331
40°	2325	2311	2308
45°	2295	2282	2275
50°	2252	2235	2228
55°	2199	2168	2165
60°	2107	2070	2070
65°	1972	1925	1931
70°	1774	1720	1714
75°	1489	1431	1424
80°	1088	1034	1079
85°	614	567	576

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2295 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.3	3.4
10°-20°	482.1	9.7
20°-30°	735.0	14.8
30°-40°	890.5	17.9
40°-50°	925.0	18.6
50°-60°	827.5	16.6
60°-70°	603.1	12.1
70°-80°	298.7	6.0
80°-90°	53.4	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°	1384.4	27.8
0°-40°	2274.9	45.7
0°-60°	4027.3	80.8
0°-90°	4982.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4982.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1763	1763	1763	1763	1763	
5°	1760	1760	1760	1760	1758	167
15°	1708	1707	1707	1708	1707	482
25°	1598	1596	1595	1594	1592	736
35°	1428	1426	1424	1422	1419	893
45°	1206	1204	1199	1197	1196	930
55°	937	930	924	924	923	835
65°	619	614	605	607	607	614
75°	286	282	275	280	274	306
85°	40	37	37	37	37	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1762.9	1762.9	1762.9	1762.9	1762.9
2.5°	1762.9	1762.2	1762.2	1762.9	1761.6
5°	1759.7	1760.3	1759.7	1759.7	1758.4
7.5°	1752.8	1752.1	1751.5	1752.1	1750.2
10°	1740.7	1740.7	1740.1	1740.7	1739.5
12.5°	1726.2	1726.2	1726.2	1726.8	1726.2
15°	1707.8	1707.2	1707.2	1708.5	1707.2
17.5°	1686.3	1685.7	1685.7	1685.1	1683.8
20°	1659.8	1659.8	1659.1	1658.5	1656.6
22.5°	1631.3	1630.7	1628.8	1628.8	1626.2
25°	1597.8	1595.9	1594.6	1594.0	1592.1
27.5°	1561.1	1558.6	1556.7	1555.4	1553.5
30°	1520.0	1517.5	1515.6	1513.7	1512.4
32.5°	1475.7	1474.4	1471.3	1470.6	1468.1
35°	1428.3	1426.4	1424.5	1421.9	1419.4
37.5°	1377.7	1375.8	1371.3	1370.1	1368.2
40°	1323.9	1321.4	1315.7	1315.7	1313.8
42.5°	1266.3	1263.8	1260.0	1257.5	1256.2
45°	1206.2	1203.7	1199.3	1196.8	1195.5
47.5°	1142.4	1140.5	1135.4	1133.5	1131.6
50°	1075.9	1073.4	1067.7	1066.5	1064.6
52.5°	1006.4	1005.1	997.5	996.9	995.0
55°	937.4	930.5	924.1	924.1	922.9
57.5°	861.5	856.5	848.2	848.2	847.0
60°	783.1	778.7	769.2	770.4	769.2
62.5°	706.5	697.1	688.2	692.0	688.8
65°	619.3	614.2	604.7	607.2	606.6
67.5°	539.6	530.1	521.2	526.3	523.7
70°	451.0	445.9	437.1	442.1	435.8
72.5°	367.5	363.1	354.2	359.9	353.6
75°	286.5	282.1	275.2	280.2	273.9
77.5°	210.0	206.8	200.5	205.6	206.8
80°	140.4	136.6	133.5	137.9	139.2
82.5°	82.2	79.7	78.4	79.1	82.2
85°	39.8	36.7	36.7	37.3	37.3
87.5°	10.8	9.5	10.8	11.4	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)