

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: P974632

Luminaire Tested: FLR2-24-65HE-L930-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974632
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-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

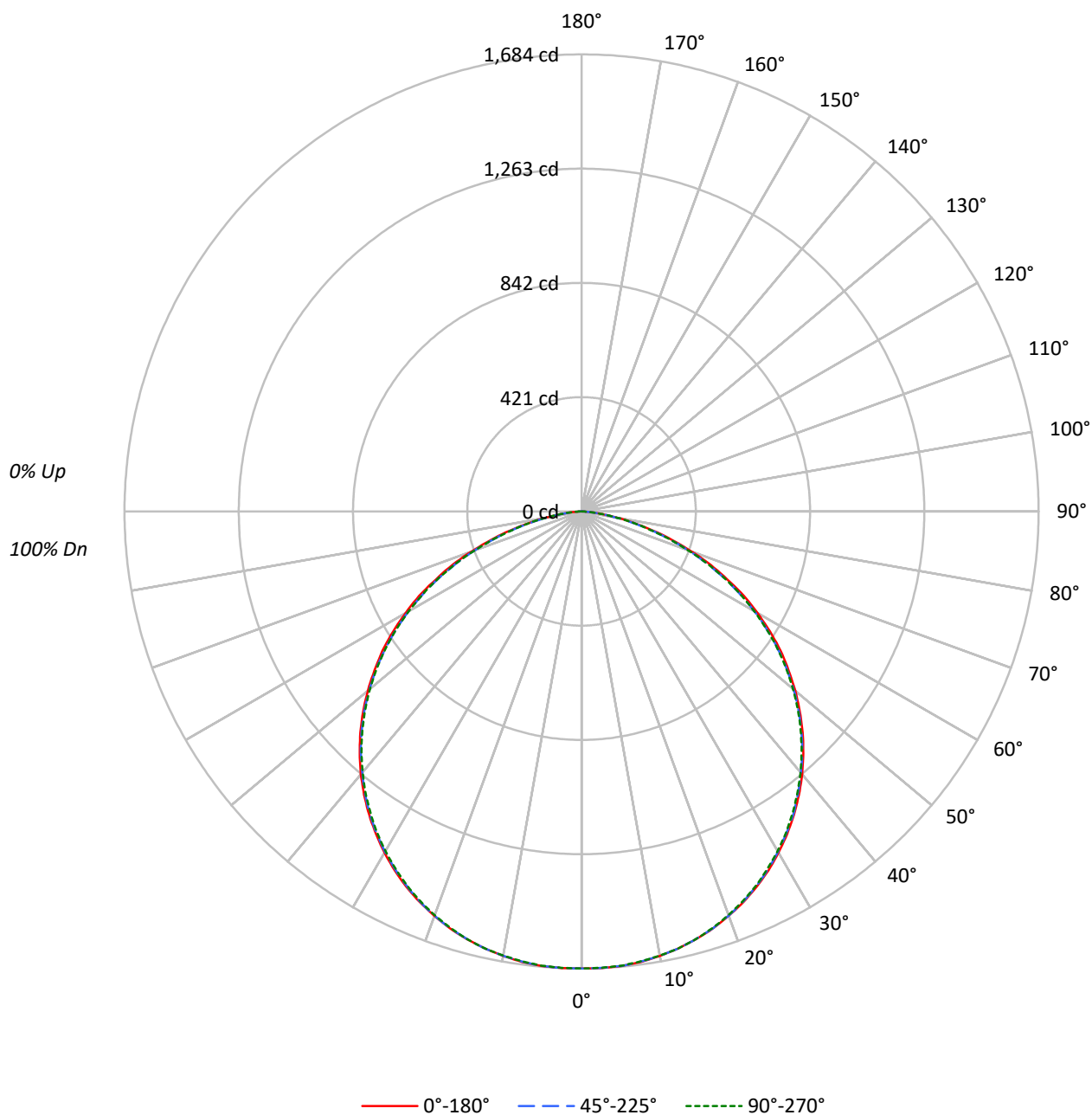
Lumens per Lamp: N/A
Luminaire Lumens: 4760.0 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2266	2266	2266
5°	2271	2271	2269
10°	2272	2271	2270
15°	2273	2272	2272
20°	2270	2270	2266
25°	2266	2262	2258
30°	2256	2250	2245
35°	2241	2235	2227
40°	2222	2208	2204
45°	2193	2180	2173
50°	2152	2135	2129
55°	2101	2071	2068
60°	2013	1977	1977
65°	1883	1839	1845
70°	1695	1643	1638
75°	1423	1367	1360
80°	1040	988	1030
85°	588	540	551

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2193 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.9	3.4
10°-20°	460.5	9.7
20°-30°	702.2	14.8
30°-40°	850.7	17.9
40°-50°	883.7	18.6
50°-60°	790.5	16.6
60°-70°	576.1	12.1
70°-80°	285.3	6.0
80°-90°	51.0	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°	1322.6	27.8
0°-40°	2173.3	45.7
0°-60°	3847.6	80.8
0°-90°	4760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4760.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1681	1682	1681	1681	1680	160
15°	1632	1631	1631	1632	1631	461
25°	1526	1525	1523	1523	1521	704
35°	1364	1363	1361	1358	1356	853
45°	1152	1150	1146	1143	1142	888
55°	896	889	883	883	882	798
65°	592	587	578	580	580	587
75°	274	270	263	268	262	292
85°	38	35	35	36	36	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1684.2	1684.2	1684.2	1684.2	1684.2
2.5°	1684.2	1683.6	1683.6	1684.2	1683.0
5°	1681.2	1681.8	1681.2	1681.2	1680.0
7.5°	1674.5	1673.9	1673.3	1673.9	1672.1
10°	1663.0	1663.0	1662.4	1663.0	1661.8
12.5°	1649.1	1649.1	1649.1	1649.7	1649.1
15°	1631.6	1631.0	1631.0	1632.2	1631.0
17.5°	1611.1	1610.5	1610.5	1609.9	1608.7
20°	1585.7	1585.7	1585.1	1584.5	1582.7
22.5°	1558.5	1557.9	1556.1	1556.1	1553.7
25°	1526.5	1524.7	1523.4	1522.8	1521.0
27.5°	1491.4	1489.0	1487.2	1486.0	1484.2
30°	1452.1	1449.7	1447.9	1446.1	1444.9
32.5°	1409.8	1408.6	1405.6	1405.0	1402.6
35°	1364.5	1362.7	1360.9	1358.5	1356.1
37.5°	1316.2	1314.4	1310.1	1308.9	1307.1
40°	1264.8	1262.4	1256.9	1256.9	1255.1
42.5°	1209.8	1207.4	1203.8	1201.4	1200.1
45°	1152.4	1150.0	1145.8	1143.3	1142.1
47.5°	1091.4	1089.6	1084.7	1082.9	1081.1
50°	1027.9	1025.5	1020.1	1018.9	1017.0
52.5°	961.4	960.2	953.0	952.4	950.6
55°	895.6	888.9	882.9	882.9	881.7
57.5°	823.1	818.2	810.4	810.4	809.2
60°	748.1	743.9	734.8	736.0	734.8
62.5°	675.0	665.9	657.5	661.1	658.1
65°	591.6	586.8	577.7	580.1	579.5
67.5°	515.5	506.4	497.9	502.8	500.4
70°	430.9	426.0	417.6	422.4	416.4
72.5°	351.1	346.9	338.4	343.8	337.8
75°	273.7	269.5	262.9	267.7	261.7
77.5°	200.6	197.6	191.6	196.4	197.6
80°	134.2	130.5	127.5	131.7	132.9
82.5°	78.6	76.1	74.9	75.5	78.6
85°	38.1	35.0	35.0	35.7	35.7
87.5°	10.3	9.1	10.3	10.9	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)