

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: P975035

Luminaire Tested: FLR2-24-35HE-L850-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975035
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: FLR2-24-35HE-L850-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

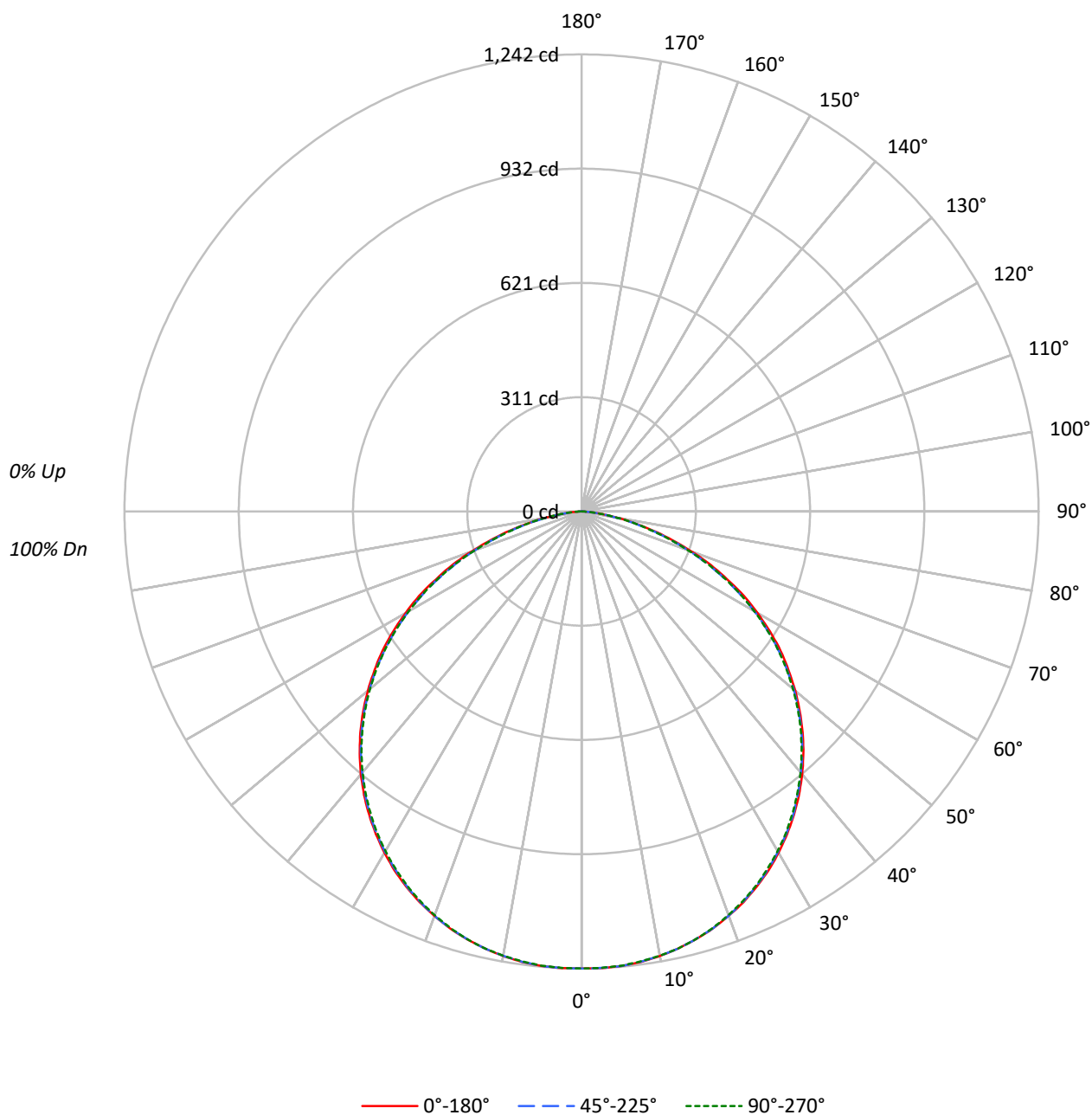
Lumens per Lamp: N/A
Luminaire Lumens: 3511.0 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.6
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°	1671	1671	1671
5°	1675	1675	1674
10°	1676	1675	1675
15°	1676	1676	1676
20°	1675	1674	1672
25°	1671	1668	1666
30°	1664	1659	1656
35°	1653	1649	1643
40°	1639	1628	1626
45°	1617	1608	1603
50°	1587	1575	1570
55°	1550	1528	1525
60°	1485	1459	1459
65°	1389	1357	1361
70°	1250	1212	1208
75°	1050	1008	1003
80°	767	728	760
85°	434	400	406

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1617 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	3.4
10°-20°	339.7	9.7
20°-30°	517.9	14.8
30°-40°	627.5	17.9
40°-50°	651.8	18.6
50°-60°	583.1	16.6
60°-70°	425.0	12.1
70°-80°	210.5	6.0
80°-90°	37.6	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°	975.5	27.8
0°-40°	1603.0	45.7
0°-60°	2837.9	80.8
0°-90°	3511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3511.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1240	1240	1240	1240	1239	118
15°	1204	1203	1203	1204	1203	340
25°	1126	1125	1124	1123	1122	519
35°	1006	1005	1004	1002	1000	630
45°	850	848	845	843	842	655
55°	661	656	651	651	650	589
65°	436	433	426	428	428	433
75°	202	199	194	198	193	215
85°	28	26	26	26	26	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1242.2	1242.2	1242.2	1242.2	1242.2
2.5°	1242.2	1241.8	1241.8	1242.2	1241.4
5°	1240.0	1240.5	1240.0	1240.0	1239.1
7.5°	1235.1	1234.7	1234.2	1234.7	1233.3
10°	1226.6	1226.6	1226.2	1226.6	1225.8
12.5°	1216.4	1216.4	1216.4	1216.8	1216.4
15°	1203.5	1203.0	1203.0	1203.9	1203.0
17.5°	1188.3	1187.9	1187.9	1187.4	1186.5
20°	1169.6	1169.6	1169.1	1168.7	1167.4
22.5°	1149.5	1149.1	1147.8	1147.8	1146.0
25°	1125.9	1124.6	1123.7	1123.2	1121.9
27.5°	1100.1	1098.3	1096.9	1096.0	1094.7
30°	1071.1	1069.3	1068.0	1066.6	1065.7
32.5°	1039.9	1039.0	1036.8	1036.3	1034.5
35°	1006.5	1005.1	1003.8	1002.0	1000.2
37.5°	970.8	969.5	966.3	965.5	964.1
40°	932.9	931.1	927.1	927.1	925.8
42.5°	892.4	890.6	887.9	886.1	885.2
45°	850.0	848.2	845.1	843.3	842.4
47.5°	805.0	803.7	800.1	798.7	797.4
50°	758.2	756.4	752.4	751.5	750.2
52.5°	709.2	708.3	702.9	702.5	701.1
55°	660.6	655.7	651.2	651.2	650.3
57.5°	607.1	603.5	597.7	597.7	596.8
60°	551.8	548.7	542.0	542.9	542.0
62.5°	497.9	491.2	485.0	487.6	485.4
65°	436.4	432.8	426.1	427.9	427.5
67.5°	380.2	373.5	367.3	370.8	369.1
70°	317.8	314.2	308.0	311.6	307.1
72.5°	259.0	255.8	249.6	253.6	249.2
75°	201.9	198.8	193.9	197.5	193.0
77.5°	148.0	145.8	141.3	144.9	145.8
80°	99.0	96.3	94.0	97.2	98.1
82.5°	57.9	56.2	55.3	55.7	57.9
85°	28.1	25.9	25.9	26.3	26.3
87.5°	7.6	6.7	7.6	8.0	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)