

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: P975024

Luminaire Tested: FLR2-24-35HE-L850-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975024
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

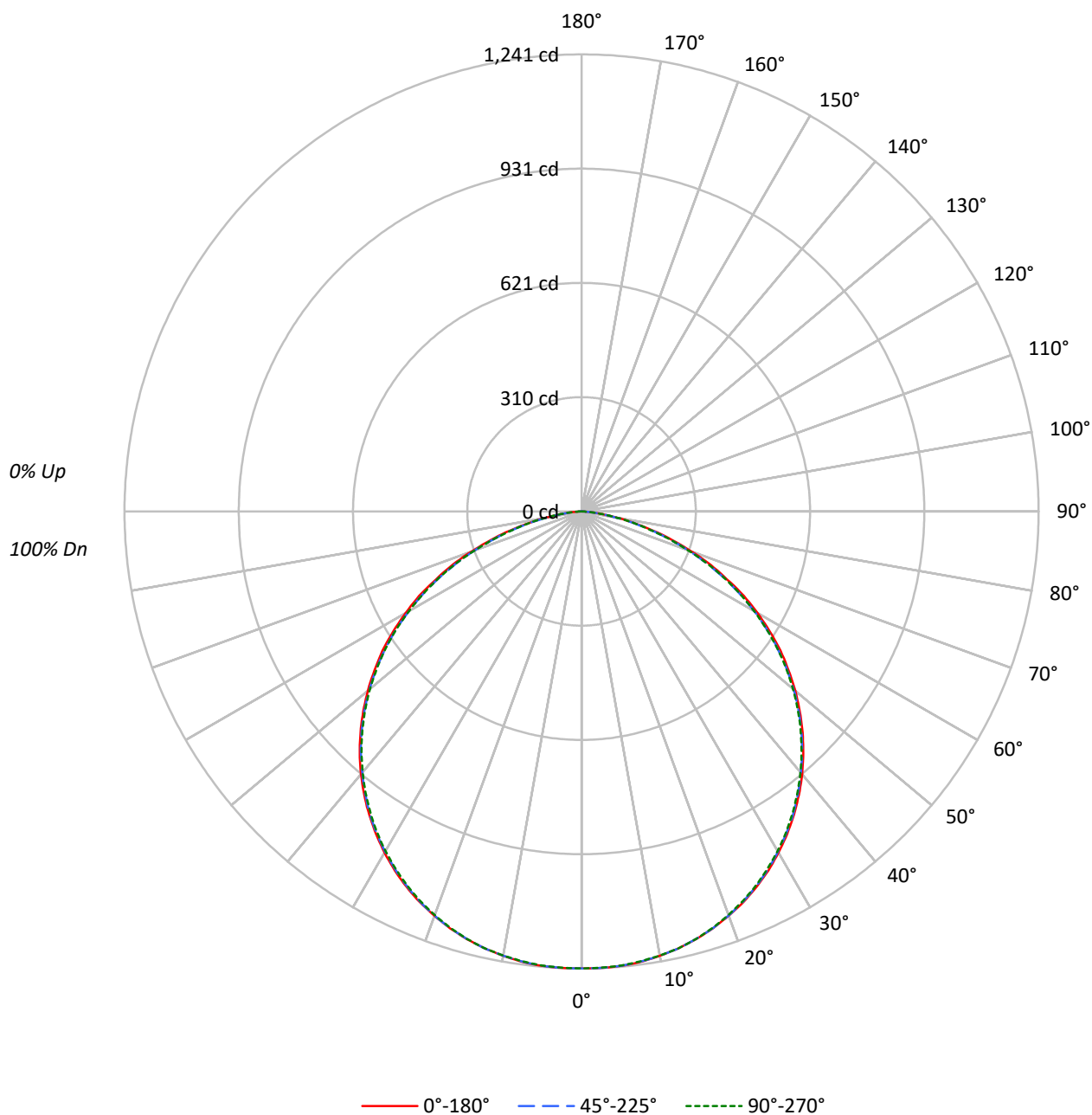
Lumens per Lamp: N/A
Luminaire Lumens: 3507.2 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P975024

CATALOG NUMBER: FLR2-24-35HE-L850-CA080

Luminous Intensity Polar Plot



TEST NUMBER: P975024

CATALOG NUMBER: FLR2-24-35HE-L850-CA080

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°	1670	1670	1670
5°	1673	1673	1672
10°	1674	1674	1673
15°	1675	1674	1674
20°	1673	1672	1670
25°	1670	1666	1664
30°	1662	1657	1654
35°	1651	1647	1641
40°	1637	1627	1624
45°	1616	1606	1601
50°	1585	1573	1569
55°	1548	1526	1524
60°	1483	1457	1457
65°	1388	1355	1359
70°	1249	1210	1207
75°	1049	1007	1002
80°	766	728	759
85°	434	398	406

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1616 cd/sqm

TEST NUMBER: P975024

CATALOG NUMBER: FLR2-24-35HE-L850-CA080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	3.4
10°-20°	339.3	9.7
20°-30°	517.4	14.8
30°-40°	626.8	17.9
40°-50°	651.1	18.6
50°-60°	582.5	16.6
60°-70°	424.5	12.1
70°-80°	210.2	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°	974.5	27.8
0°-40°	1601.3	45.7
0°-60°	2834.9	80.8
0°-90°	3507.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3507.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1241	1241	1241	1241	1241	
5°	1239	1239	1239	1239	1238	118
15°	1202	1202	1202	1203	1202	339
25°	1125	1123	1122	1122	1121	518
35°	1005	1004	1003	1001	999	629
45°	849	847	844	842	842	654
55°	660	655	650	650	650	588
65°	436	432	426	427	427	432
75°	202	199	194	197	193	215
85°	28	26	26	26	26	39
90°	0	0	0	0	0	

TEST NUMBER: P975024

CATALOG NUMBER: FLR2-24-35HE-L850-CA080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1240.9	1240.9	1240.9	1240.9	1240.9
2.5°	1240.9	1240.5	1240.5	1240.9	1240.0
5°	1238.7	1239.1	1238.7	1238.7	1237.8
7.5°	1233.8	1233.3	1232.9	1233.3	1232.0
10°	1225.3	1225.3	1224.9	1225.3	1224.4
12.5°	1215.1	1215.1	1215.1	1215.5	1215.1
15°	1202.2	1201.7	1201.7	1202.6	1201.7
17.5°	1187.0	1186.6	1186.6	1186.1	1185.3
20°	1168.3	1168.3	1167.9	1167.4	1166.1
22.5°	1148.3	1147.9	1146.5	1146.5	1144.7
25°	1124.7	1123.4	1122.5	1122.0	1120.7
27.5°	1098.9	1097.1	1095.8	1094.9	1093.5
30°	1069.9	1068.2	1066.8	1065.5	1064.6
32.5°	1038.8	1037.9	1035.7	1035.2	1033.4
35°	1005.4	1004.0	1002.7	1000.9	999.1
37.5°	969.8	968.4	965.3	964.4	963.1
40°	931.9	930.1	926.1	926.1	924.8
42.5°	891.4	889.6	886.9	885.2	884.3
45°	849.1	847.3	844.2	842.4	841.5
47.5°	804.1	802.8	799.2	797.9	796.6
50°	757.4	755.6	751.6	750.7	749.4
52.5°	708.4	707.5	702.2	701.7	700.4
55°	659.9	655.0	650.5	650.5	649.6
57.5°	606.4	602.9	597.1	597.1	596.2
60°	551.2	548.1	541.4	542.3	541.4
62.5°	497.3	490.7	484.4	487.1	484.9
65°	435.9	432.3	425.7	427.4	427.0
67.5°	379.8	373.1	366.9	370.4	368.7
70°	317.5	313.9	307.7	311.2	306.8
72.5°	258.7	255.6	249.3	253.3	248.9
75°	201.7	198.6	193.7	197.2	192.8
77.5°	147.8	145.6	141.1	144.7	145.6
80°	98.8	96.2	93.9	97.1	98.0
82.5°	57.9	56.1	55.2	55.7	57.9
85°	28.1	25.8	25.8	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)