

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: P974584

Luminaire Tested: FLR2-24-35HE-L930-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974584
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-L930-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

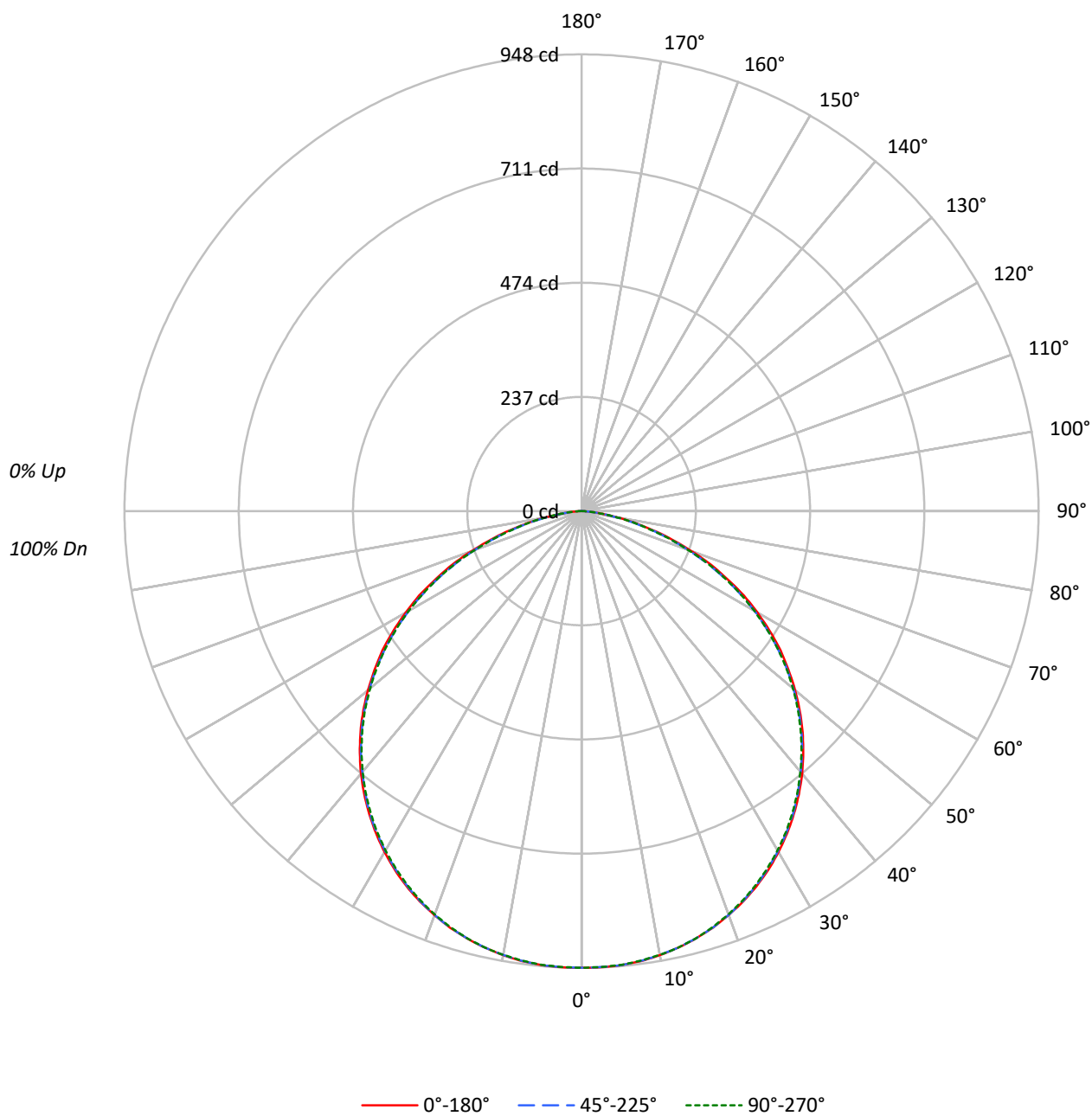
Lumens per Lamp: N/A
Luminaire Lumens: 2678.6 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1275	1275	1275
5°	1278	1278	1277
10°	1279	1278	1278
15°	1279	1278	1278
20°	1278	1277	1275
25°	1275	1273	1271
30°	1270	1266	1263
35°	1261	1258	1253
40°	1250	1242	1241
45°	1234	1227	1223
50°	1211	1202	1198
55°	1182	1165	1164
60°	1133	1113	1113
65°	1060	1035	1038
70°	954	924	922
75°	801	769	765
80°	585	556	580
85°	330	304	310

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1234 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	3.4
10°-20°	259.2	9.7
20°-30°	395.1	14.8
30°-40°	478.7	17.9
40°-50°	497.3	18.6
50°-60°	444.8	16.6
60°-70°	324.2	12.1
70°-80°	160.6	6.0
80°-90°	28.7	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°	744.3	27.8
0°-40°	1223.0	45.7
0°-60°	2165.1	80.8
0°-90°	2678.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2678.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	946	946	946	946	945	90
15°	918	918	918	918	918	259
25°	859	858	857	857	856	396
35°	768	767	766	764	763	480
45°	648	647	645	643	643	500
55°	504	500	497	497	496	449
65°	333	330	325	326	326	330
75°	154	152	148	151	147	164
85°	21	20	20	20	20	30
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	947.8	947.8	947.8	947.8	947.8
2.5°	947.8	947.4	947.4	947.8	947.1
5°	946.1	946.4	946.1	946.1	945.4
7.5°	942.3	942.0	941.6	942.0	941.0
10°	935.9	935.9	935.5	935.9	935.2
12.5°	928.0	928.0	928.0	928.4	928.0
15°	918.2	917.8	917.8	918.5	917.8
17.5°	906.6	906.3	906.3	905.9	905.2
20°	892.3	892.3	892.0	891.6	890.6
22.5°	877.0	876.7	875.7	875.7	874.3
25°	859.0	858.0	857.3	857.0	855.9
27.5°	839.3	837.9	836.9	836.2	835.2
30°	817.2	815.8	814.8	813.8	813.1
32.5°	793.4	792.7	791.0	790.6	789.3
35°	767.9	766.8	765.8	764.5	763.1
37.5°	740.7	739.6	737.3	736.6	735.6
40°	711.8	710.4	707.3	707.3	706.3
42.5°	680.8	679.4	677.4	676.0	675.4
45°	648.5	647.1	644.8	643.4	642.7
47.5°	614.2	613.1	610.4	609.4	608.4
50°	578.4	577.1	574.0	573.3	572.3
52.5°	541.0	540.4	536.3	535.9	534.9
55°	504.0	500.2	496.8	496.8	496.2
57.5°	463.2	460.4	456.0	456.0	455.3
60°	421.0	418.6	413.5	414.2	413.5
62.5°	379.9	374.7	370.0	372.0	370.3
65°	332.9	330.2	325.1	326.5	326.1
67.5°	290.1	285.0	280.2	282.9	281.6
70°	242.5	239.7	235.0	237.7	234.3
72.5°	197.6	195.2	190.4	193.5	190.1
75°	154.0	151.7	147.9	150.6	147.2
77.5°	112.9	111.2	107.8	110.5	111.2
80°	75.5	73.5	71.8	74.1	74.8
82.5°	44.2	42.8	42.2	42.5	44.2
85°	21.4	19.7	19.7	20.1	20.1
87.5°	5.8	5.1	5.8	6.1	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)