

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: P974796

Luminaire Tested: FLR2-24-55HE-L935-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974796
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: FLR2-24-55HE-L935-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

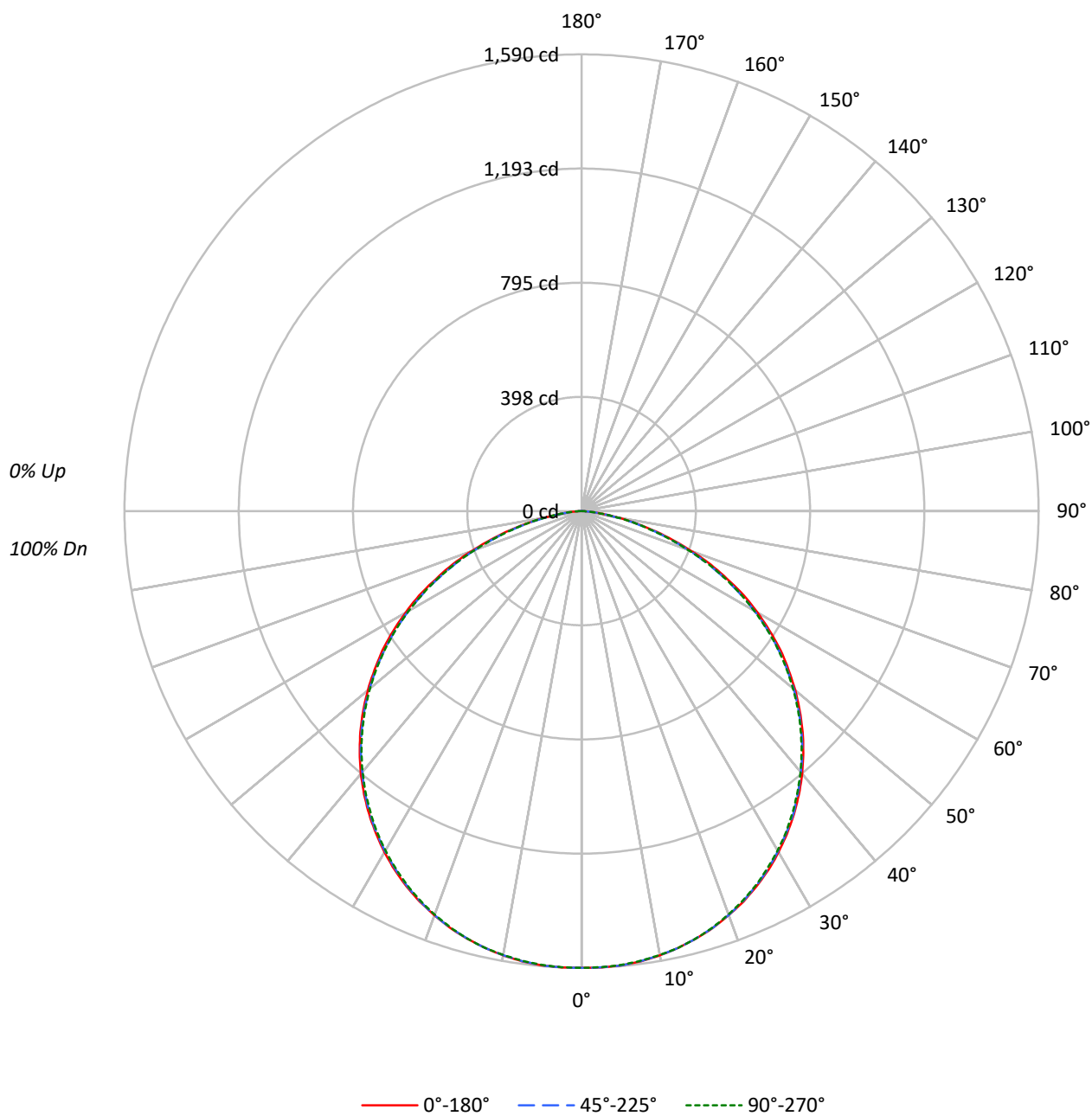
Lumens per Lamp: N/A
Luminaire Lumens: 4494.5 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.3
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°	2140	2140	2140
5°	2144	2144	2142
10°	2145	2145	2144
15°	2146	2145	2145
20°	2144	2143	2140
25°	2140	2136	2132
30°	2130	2124	2120
35°	2116	2111	2103
40°	2098	2085	2082
45°	2070	2058	2052
50°	2032	2016	2010
55°	1984	1955	1953
60°	1901	1867	1867
65°	1778	1737	1742
70°	1600	1551	1546
75°	1344	1290	1285
80°	982	933	972
85°	554	511	520

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2070 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	3.4
10°-20°	434.9	9.7
20°-30°	663.0	14.8
30°-40°	803.3	17.9
40°-50°	834.4	18.6
50°-60°	746.4	16.6
60°-70°	544.0	12.1
70°-80°	269.4	6.0
80°-90°	48.2	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°	1248.8	27.8
0°-40°	2052.1	45.7
0°-60°	3632.9	80.8
0°-90°	4494.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4494.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1590	1590	1590	1590	1590	
5°	1587	1588	1587	1587	1586	151
15°	1541	1540	1540	1541	1540	435
25°	1441	1440	1438	1438	1436	664
35°	1288	1287	1285	1283	1280	806
45°	1088	1086	1082	1080	1078	839
55°	846	839	834	834	832	753
65°	559	554	546	548	547	554
75°	258	254	248	253	247	276
85°	36	33	33	34	34	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1590.2	1590.2	1590.2	1590.2	1590.2
2.5°	1590.2	1589.7	1589.7	1590.2	1589.1
5°	1587.4	1588.0	1587.4	1587.4	1586.2
7.5°	1581.1	1580.5	1580.0	1580.5	1578.8
10°	1570.3	1570.3	1569.7	1570.3	1569.1
12.5°	1557.1	1557.1	1557.1	1557.7	1557.1
15°	1540.6	1540.0	1540.0	1541.2	1540.0
17.5°	1521.2	1520.6	1520.6	1520.1	1518.9
20°	1497.2	1497.2	1496.7	1496.1	1494.4
22.5°	1471.6	1471.0	1469.3	1469.3	1467.0
25°	1441.3	1439.6	1438.5	1437.9	1436.2
27.5°	1408.2	1405.9	1404.2	1403.1	1401.4
30°	1371.1	1368.8	1367.1	1365.4	1364.3
32.5°	1331.2	1330.0	1327.2	1326.6	1324.3
35°	1288.4	1286.7	1285.0	1282.7	1280.4
37.5°	1242.7	1241.0	1237.0	1235.9	1234.2
40°	1194.2	1192.0	1186.8	1186.8	1185.1
42.5°	1142.3	1140.0	1136.6	1134.3	1133.2
45°	1088.1	1085.8	1081.8	1079.6	1078.4
47.5°	1030.5	1028.8	1024.2	1022.5	1020.8
50°	970.6	968.3	963.2	962.0	960.3
52.5°	907.8	906.7	899.8	899.3	897.5
55°	845.6	839.3	833.6	833.6	832.5
57.5°	777.1	772.6	765.2	765.2	764.0
60°	706.4	702.4	693.8	695.0	693.8
62.5°	637.3	628.8	620.8	624.2	621.4
65°	558.6	554.0	545.5	547.8	547.2
67.5°	486.7	478.2	470.2	474.7	472.4
70°	406.8	402.3	394.3	398.8	393.1
72.5°	331.5	327.5	319.5	324.7	319.0
75°	258.5	254.5	248.2	252.8	247.1
77.5°	189.4	186.6	180.9	185.4	186.6
80°	126.7	123.2	120.4	124.4	125.5
82.5°	74.2	71.9	70.8	71.3	74.2
85°	35.9	33.1	33.1	33.7	33.7
87.5°	9.7	8.6	9.7	10.3	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)