

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: P974807

Luminaire Tested: FLR2-24-55HE-L935-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974807
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

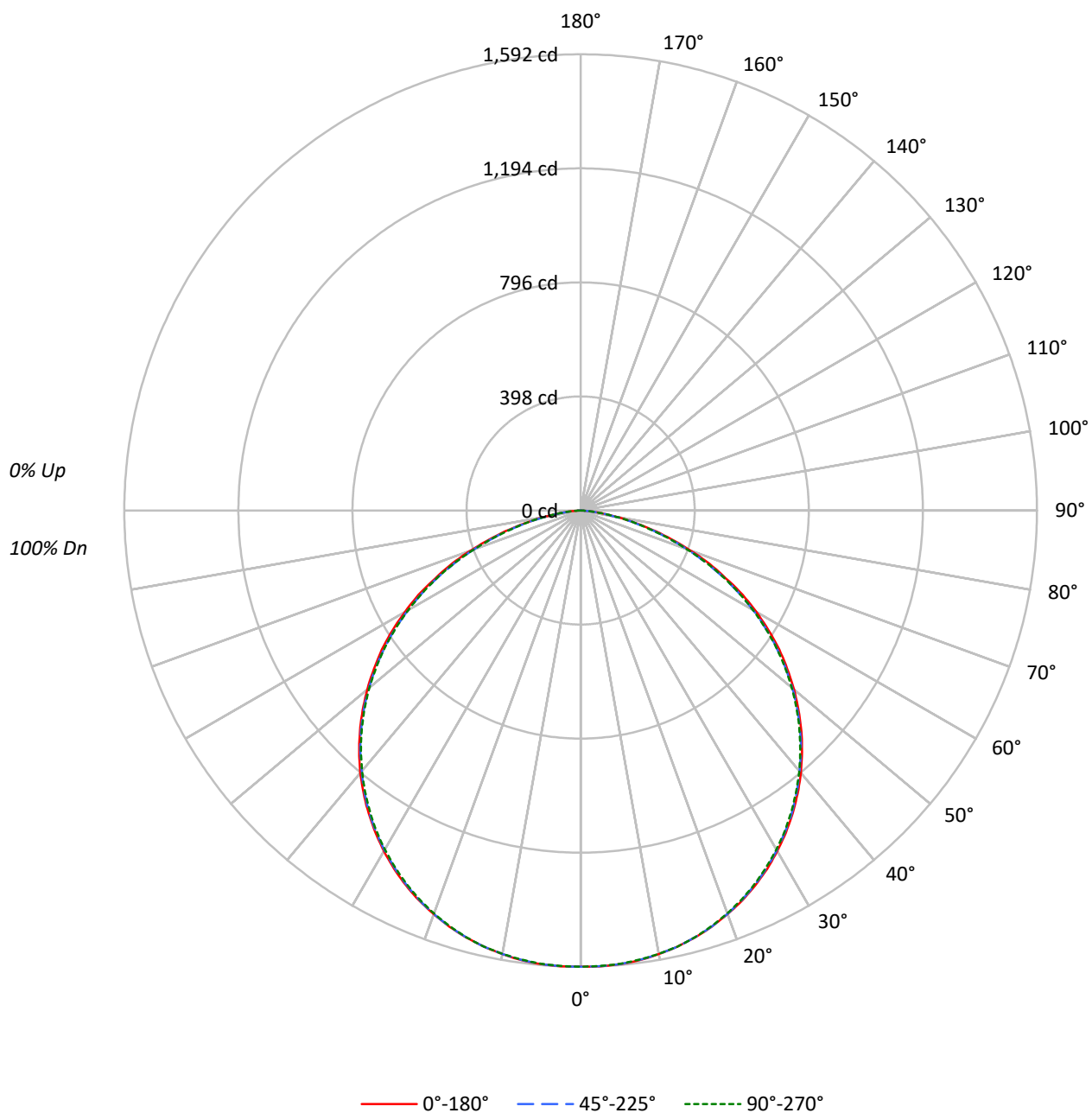
Lumens per Lamp: N/A
Luminaire Lumens: 4499.4 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2142	2142	2142
5°	2146	2146	2145
10°	2148	2147	2146
15°	2148	2148	2148
20°	2146	2145	2142
25°	2142	2138	2134
30°	2133	2126	2122
35°	2119	2113	2105
40°	2100	2087	2084
45°	2073	2061	2054
50°	2034	2018	2012
55°	1986	1958	1955
60°	1903	1869	1869
65°	1780	1739	1744
70°	1602	1553	1548
75°	1345	1292	1286
80°	982	934	974
85°	556	511	520

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2073 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	3.4
10°-20°	435.3	9.7
20°-30°	663.7	14.8
30°-40°	804.2	17.9
40°-50°	835.3	18.6
50°-60°	747.2	16.6
60°-70°	544.6	12.1
70°-80°	269.7	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°	1250.2	27.8
0°-40°	2054.3	45.7
0°-60°	3636.8	80.8
0°-90°	4499.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4499.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1592	1592	1592	1592	1592	
5°	1589	1590	1589	1589	1588	151
15°	1542	1542	1542	1543	1542	435
25°	1443	1441	1440	1439	1438	665
35°	1290	1288	1286	1284	1282	807
45°	1089	1087	1083	1081	1080	839
55°	846	840	834	834	833	754
65°	559	555	546	548	548	554
75°	259	255	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°	1592.0	1592.0	1592.0	1592.0	1592.0
2.5°	1592.0	1591.4	1591.4	1592.0	1590.8
5°	1589.1	1589.7	1589.1	1589.1	1588.0
7.5°	1582.8	1582.2	1581.7	1582.2	1580.5
10°	1572.0	1572.0	1571.4	1572.0	1570.8
12.5°	1558.8	1558.8	1558.8	1559.4	1558.8
15°	1542.3	1541.7	1541.7	1542.8	1541.7
17.5°	1522.8	1522.3	1522.3	1521.7	1520.5
20°	1498.8	1498.8	1498.3	1497.7	1496.0
22.5°	1473.1	1472.6	1470.9	1470.9	1468.6
25°	1442.9	1441.2	1440.0	1439.4	1437.7
27.5°	1409.7	1407.5	1405.7	1404.6	1402.9
30°	1372.6	1370.3	1368.6	1366.9	1365.8
32.5°	1332.6	1331.5	1328.6	1328.1	1325.8
35°	1289.8	1288.1	1286.4	1284.1	1281.8
37.5°	1244.1	1242.4	1238.4	1237.2	1235.5
40°	1195.5	1193.2	1188.1	1188.1	1186.4
42.5°	1143.6	1141.3	1137.8	1135.6	1134.4
45°	1089.3	1087.0	1083.0	1080.7	1079.6
47.5°	1031.6	1029.9	1025.3	1023.6	1021.9
50°	971.6	969.3	964.2	963.1	961.3
52.5°	908.8	907.6	900.8	900.2	898.5
55°	846.5	840.2	834.5	834.5	833.4
57.5°	778.0	773.4	766.0	766.0	764.8
60°	707.2	703.2	694.6	695.7	694.6
62.5°	638.0	629.5	621.5	624.9	622.0
65°	559.2	554.6	546.1	548.4	547.8
67.5°	487.2	478.7	470.7	475.2	473.0
70°	407.3	402.7	394.7	399.3	393.6
72.5°	331.9	327.9	319.9	325.0	319.3
75°	258.8	254.8	248.5	253.0	247.3
77.5°	189.6	186.8	181.1	185.6	186.8
80°	126.8	123.4	120.5	124.5	125.7
82.5°	74.3	72.0	70.8	71.4	74.3
85°	36.0	33.1	33.1	33.7	33.7
87.5°	9.7	8.6	9.7	10.3	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)