

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: P974961

Luminaire Tested: FLR2-24-55HE-L940-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974961
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-L940-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

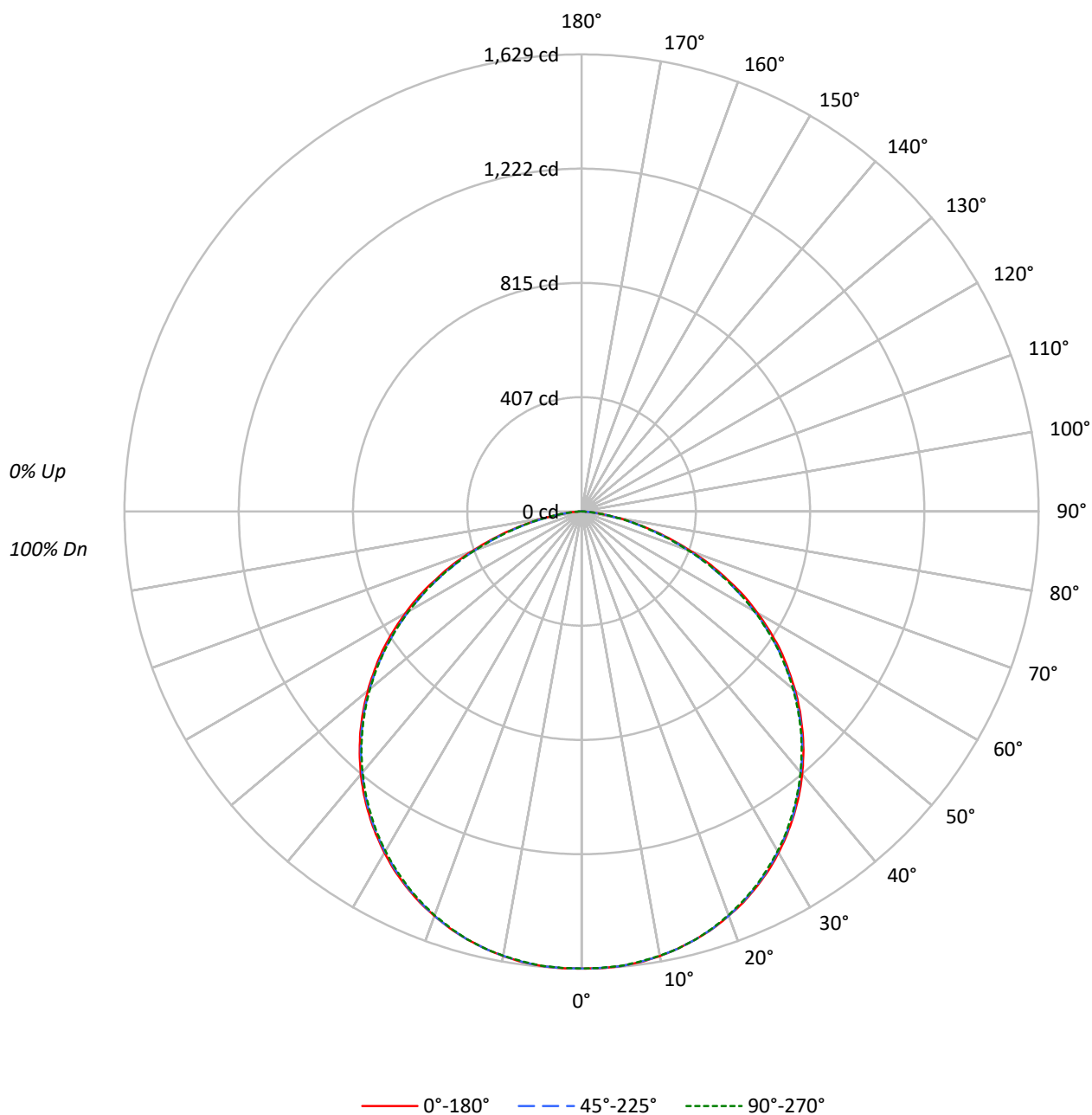
Lumens per Lamp: N/A
Luminaire Lumens: 4605.2 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2192	2192	2192
5°	2197	2197	2195
10°	2198	2197	2197
15°	2199	2198	2198
20°	2197	2196	2192
25°	2192	2188	2185
30°	2183	2176	2172
35°	2168	2163	2155
40°	2149	2136	2133
45°	2121	2109	2103
50°	2082	2066	2060
55°	2032	2004	2001
60°	1948	1913	1913
65°	1822	1779	1785
70°	1640	1589	1585
75°	1377	1322	1316
80°	1006	956	996
85°	568	523	533

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2121 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.7	3.4
10°-20°	445.6	9.7
20°-30°	679.3	14.8
30°-40°	823.1	17.9
40°-50°	855.0	18.6
50°-60°	764.8	16.6
60°-70°	557.4	12.1
70°-80°	276.1	6.0
80°-90°	49.3	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°	1279.6	27.8
0°-40°	2102.6	45.7
0°-60°	3722.4	80.8
0°-90°	4605.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4605.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1629	1629	1629	1629	1629	
5°	1626	1627	1626	1626	1625	155
15°	1578	1578	1578	1579	1578	446
25°	1477	1475	1474	1473	1472	681
35°	1320	1318	1317	1314	1312	826
45°	1115	1113	1108	1106	1105	859
55°	866	860	854	854	853	772
65°	572	568	559	561	561	567
75°	265	261	254	259	253	282
85°	37	34	34	34	34	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1629.4	1629.4	1629.4	1629.4	1629.4
2.5°	1629.4	1628.8	1628.8	1629.4	1628.2
5°	1626.5	1627.1	1626.5	1626.5	1625.3
7.5°	1620.1	1619.5	1618.9	1619.5	1617.7
10°	1608.9	1608.9	1608.4	1608.9	1607.8
12.5°	1595.5	1595.5	1595.5	1596.1	1595.5
15°	1578.5	1578.0	1578.0	1579.1	1578.0
17.5°	1558.7	1558.1	1558.1	1557.5	1556.3
20°	1534.1	1534.1	1533.5	1532.9	1531.2
22.5°	1507.8	1507.2	1505.5	1505.5	1503.1
25°	1476.8	1475.1	1473.9	1473.3	1471.6
27.5°	1442.9	1440.6	1438.8	1437.6	1435.9
30°	1404.9	1402.6	1400.8	1399.1	1397.9
32.5°	1364.0	1362.8	1359.9	1359.3	1357.0
35°	1320.1	1318.4	1316.6	1314.3	1311.9
37.5°	1273.4	1271.6	1267.5	1266.3	1264.6
40°	1223.7	1221.3	1216.1	1216.1	1214.3
42.5°	1170.5	1168.1	1164.6	1162.3	1161.1
45°	1114.9	1112.6	1108.5	1106.2	1105.0
47.5°	1055.9	1054.1	1049.4	1047.7	1045.9
50°	994.5	992.1	986.9	985.7	984.0
52.5°	930.2	929.0	922.0	921.4	919.6
55°	866.4	860.0	854.2	854.2	853.0
57.5°	796.3	791.6	784.0	784.0	782.8
60°	723.8	719.7	710.9	712.1	710.9
62.5°	653.0	644.3	636.1	639.6	636.7
65°	572.4	567.7	558.9	561.3	560.7
67.5°	498.7	489.9	481.7	486.4	484.1
70°	416.9	412.2	404.0	408.7	402.8
72.5°	339.7	335.6	327.4	332.7	326.8
75°	264.8	260.8	254.3	259.0	253.2
77.5°	194.1	191.2	185.3	190.0	191.2
80°	129.8	126.3	123.4	127.5	128.6
82.5°	76.0	73.7	72.5	73.1	76.0
85°	36.8	33.9	33.9	34.5	34.5
87.5°	9.9	8.8	9.9	10.5	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)