

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: P974642

Luminaire Tested: FLR2-24-55HE-L930-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974642
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-L930-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

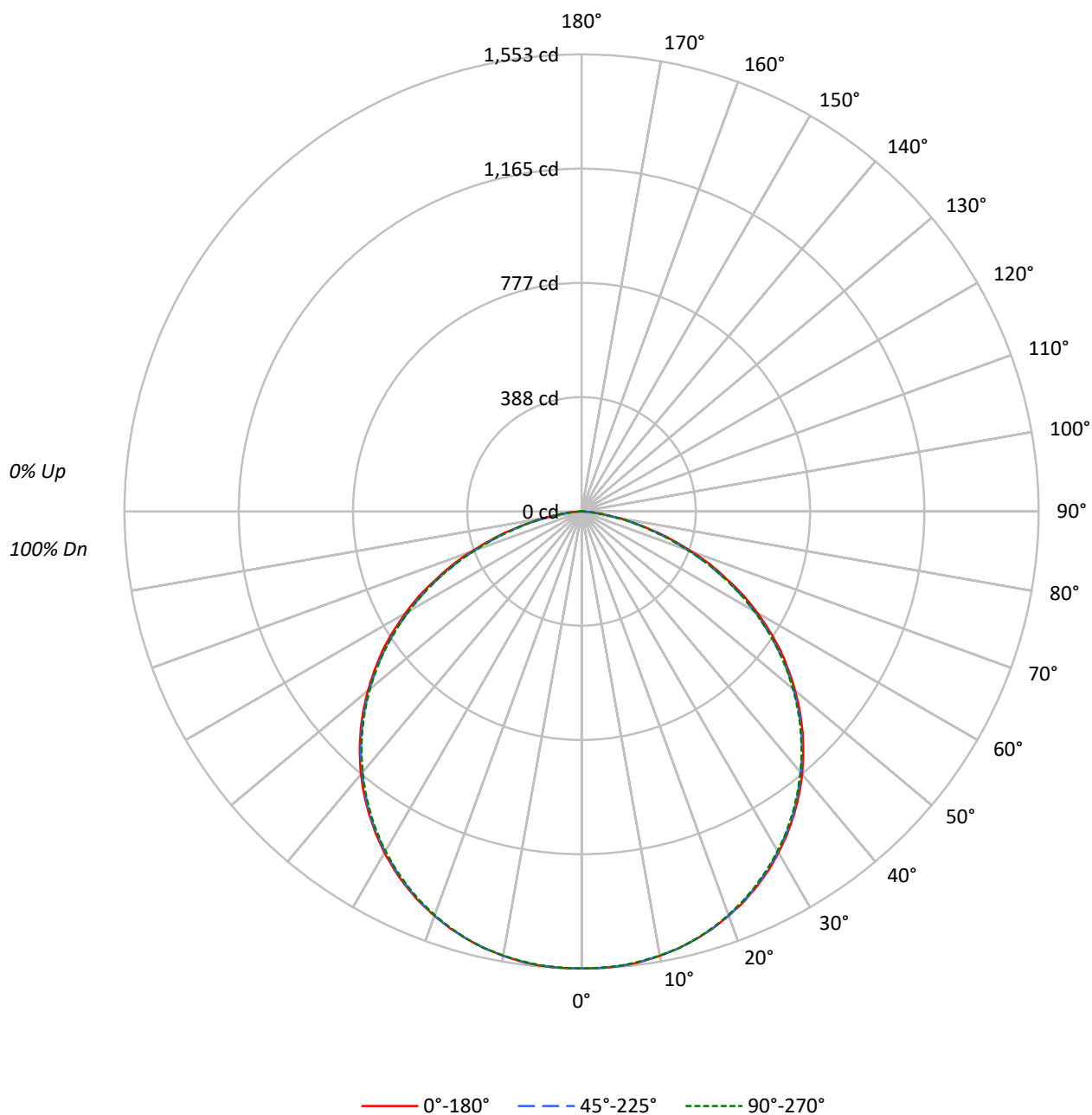
Lumens per Lamp: N/A
Luminaire Lumens: 4388.7 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P974642

CATALOG NUMBER: FLR2-24-55HE-L930-CA080

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°	2089	2089	2089
5°	2093	2093	2092
10°	2095	2094	2093
15°	2095	2095	2095
20°	2093	2092	2089
25°	2089	2085	2082
30°	2080	2074	2070
35°	2066	2061	2054
40°	2048	2036	2033
45°	2022	2010	2004
50°	1984	1969	1963
55°	1937	1909	1907
60°	1856	1823	1823
65°	1737	1696	1701
70°	1563	1515	1510
75°	1312	1260	1254
80°	958	911	950
85°	542	499	508

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2022 cd/sqm

TEST NUMBER: P974642
CATALOG NUMBER: FLR2-24-55HE-L930-CA080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	3.4
10°-20°	424.6	9.7
20°-30°	647.4	14.8
30°-40°	784.4	17.9
40°-50°	814.8	18.6
50°-60°	728.9	16.6
60°-70°	531.2	12.1
70°-80°	263.1	6.0
80°-90°	47.0	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°	1219.4	27.8
0°-40°	2003.8	45.7
0°-60°	3547.4	80.8
0°-90°	4388.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4388.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1553	1553	1553	1553	1553	
5°	1550	1551	1550	1550	1549	147
15°	1504	1504	1504	1505	1504	425
25°	1407	1406	1405	1404	1402	649
35°	1258	1256	1255	1252	1250	787
45°	1062	1060	1056	1054	1053	819
55°	826	820	814	814	813	736
65°	546	541	533	535	534	541
75°	252	248	242	247	241	269
85°	35	32	32	33	33	49
90°	0	0	0	0	0	

TEST NUMBER: P974642

CATALOG NUMBER: FLR2-24-55HE-L930-CA080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1552.8	1552.8	1552.8	1552.8	1552.8
2.5°	1552.8	1552.3	1552.3	1552.8	1551.7
5°	1550.0	1550.6	1550.0	1550.0	1548.9
7.5°	1543.9	1543.3	1542.8	1543.3	1541.7
10°	1533.3	1533.3	1532.8	1533.3	1532.2
12.5°	1520.5	1520.5	1520.5	1521.1	1520.5
15°	1504.3	1503.8	1503.8	1504.9	1503.8
17.5°	1485.4	1484.8	1484.8	1484.3	1483.2
20°	1462.0	1462.0	1461.4	1460.9	1459.2
22.5°	1436.9	1436.4	1434.7	1434.7	1432.5
25°	1407.4	1405.7	1404.6	1404.1	1402.4
27.5°	1375.1	1372.9	1371.2	1370.1	1368.4
30°	1338.9	1336.6	1335.0	1333.3	1332.2
32.5°	1299.9	1298.8	1296.0	1295.4	1293.2
35°	1258.1	1256.4	1254.7	1252.5	1250.3
37.5°	1213.5	1211.8	1207.9	1206.8	1205.1
40°	1166.1	1163.9	1158.9	1158.9	1157.2
42.5°	1115.4	1113.2	1109.9	1107.6	1106.5
45°	1062.5	1060.3	1056.4	1054.2	1053.0
47.5°	1006.2	1004.6	1000.1	998.4	996.8
50°	947.7	945.5	940.5	939.4	937.7
52.5°	886.4	885.3	878.6	878.1	876.4
55°	825.7	819.6	814.0	814.0	812.9
57.5°	758.9	754.4	747.2	747.2	746.0
60°	689.8	685.9	677.5	678.6	677.5
62.5°	622.4	614.0	606.2	609.5	606.8
65°	545.5	541.0	532.6	534.9	534.3
67.5°	475.3	466.9	459.1	463.6	461.3
70°	397.3	392.8	385.0	389.5	383.9
72.5°	323.7	319.8	312.0	317.0	311.5
75°	252.4	248.5	242.4	246.8	241.3
77.5°	185.0	182.2	176.6	181.1	182.2
80°	123.7	120.3	117.6	121.5	122.6
82.5°	72.4	70.2	69.1	69.6	72.4
85°	35.1	32.3	32.3	32.9	32.9
87.5°	9.5	8.4	9.5	10.0	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)