

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: P973782

Luminaire Tested: FLR2-22-25HE-L930-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-25HE-L930-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

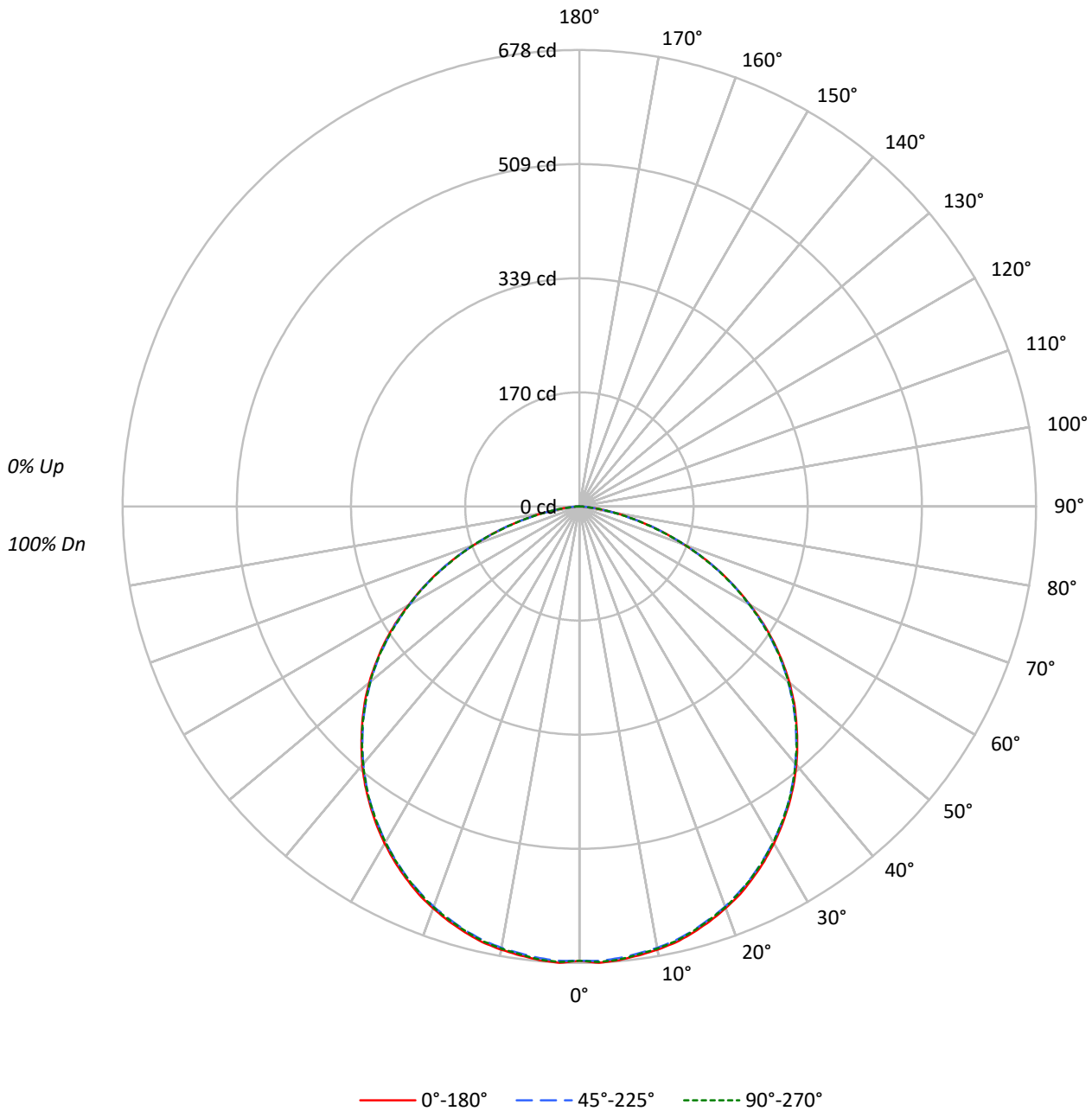
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1886.9 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 19.2
Input Voltage (V): 120
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: P973782
CATALOG NUMBER: FLR2-22-25HE-L930-CP250

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85															
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44					44															
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34					34															
8	61	47	39	33	59	47	39	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	40	34	29	27					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1816	1816	1816
5°	1827	1819	1825
10°	1827	1819	1822
15°	1825	1817	1819
20°	1819	1812	1814
25°	1809	1802	1803
30°	1796	1788	1790
35°	1780	1773	1774
40°	1761	1753	1754
45°	1735	1727	1730
50°	1705	1693	1696
55°	1656	1643	1648
60°	1575	1568	1568
65°	1470	1468	1462
70°	1302	1308	1305
75°	1096	1088	1079
80°	787	775	769
85°	411	411	398

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1735 cd/sqm



TEST NUMBER: P973782
 CATALOG NUMBER: FLR2-22-25HE-L930-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	3.4
10°-20°	183.7	9.7
20°-30°	279.2	14.8
30°-40°	337.5	17.9
40°-50°	350.3	18.6
50°-60°	313.2	16.6
60°-70°	227.7	12.1
70°-80°	112.0	5.9
80°-90°	19.4	1.0
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°	526.8	27.9
0°-40°	864.3	45.8
0°-60°	1527.8	81.0
0°-90°	1886.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1886.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	675	675	675	675	675	
5°	676	668	674	671	676	64
15°	655	648	652	651	653	185
25°	609	603	607	606	607	281
35°	542	538	540	540	540	339
45°	456	454	454	455	455	352
55°	353	351	350	351	351	315
65°	231	232	230	230	230	228
75°	105	106	105	105	104	112
85°	13	14	13	13	13	19
90°	0	0	0	0	0	



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 CATALOG NUMBER: FLR2-22-25HE-L930-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	674.7	674.7	674.7	674.7	674.7
2.5°	678.5	670.6	675.6	672.6	677.2
5°	676.4	668.5	673.5	671.0	675.6
7.5°	672.6	664.7	669.7	667.2	671.0
10°	668.5	660.1	665.6	663.1	666.8
12.5°	663.1	655.1	660.1	658.1	661.4
15°	655.1	647.6	652.2	650.6	653.1
17.5°	645.6	638.0	642.6	641.4	643.5
20°	635.1	628.0	632.6	631.4	633.5
22.5°	623.5	616.0	620.1	619.3	621.0
25°	609.3	602.6	606.8	605.5	607.2
27.5°	594.3	588.0	591.4	591.4	592.2
30°	578.0	572.2	575.5	575.5	576.0
32.5°	560.5	555.9	558.0	558.4	558.4
35°	541.8	538.0	539.7	540.1	540.1
37.5°	522.2	518.4	519.7	520.5	520.5
40°	501.4	498.0	498.9	499.7	499.3
42.5°	478.8	476.3	476.8	477.6	477.6
45°	455.9	453.8	453.8	454.7	454.7
47.5°	432.6	430.5	429.7	430.5	430.5
50°	407.2	405.1	404.3	405.1	405.1
52.5°	380.5	378.4	378.4	378.4	378.8
55°	353.0	350.9	350.1	350.9	351.3
57.5°	323.8	323.0	321.7	322.2	320.9
60°	292.6	292.6	291.3	292.1	291.3
62.5°	262.1	263.0	261.7	261.7	260.9
65°	230.9	231.7	230.5	230.5	229.6
67.5°	198.8	200.0	198.4	198.4	197.5
70°	165.5	168.0	166.3	166.7	165.9
72.5°	135.4	136.7	135.0	135.0	134.2
75°	105.4	106.3	104.6	105.0	103.8
77.5°	75.8	77.1	75.4	75.8	75.4
80°	50.8	51.3	50.0	50.4	49.6
82.5°	29.6	30.0	29.6	29.2	28.8
85°	13.3	13.8	13.3	13.3	12.9
87.5°	3.3	3.3	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)