

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: P973800

Luminaire Tested: FLR2-22-25HE-L930-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973800
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

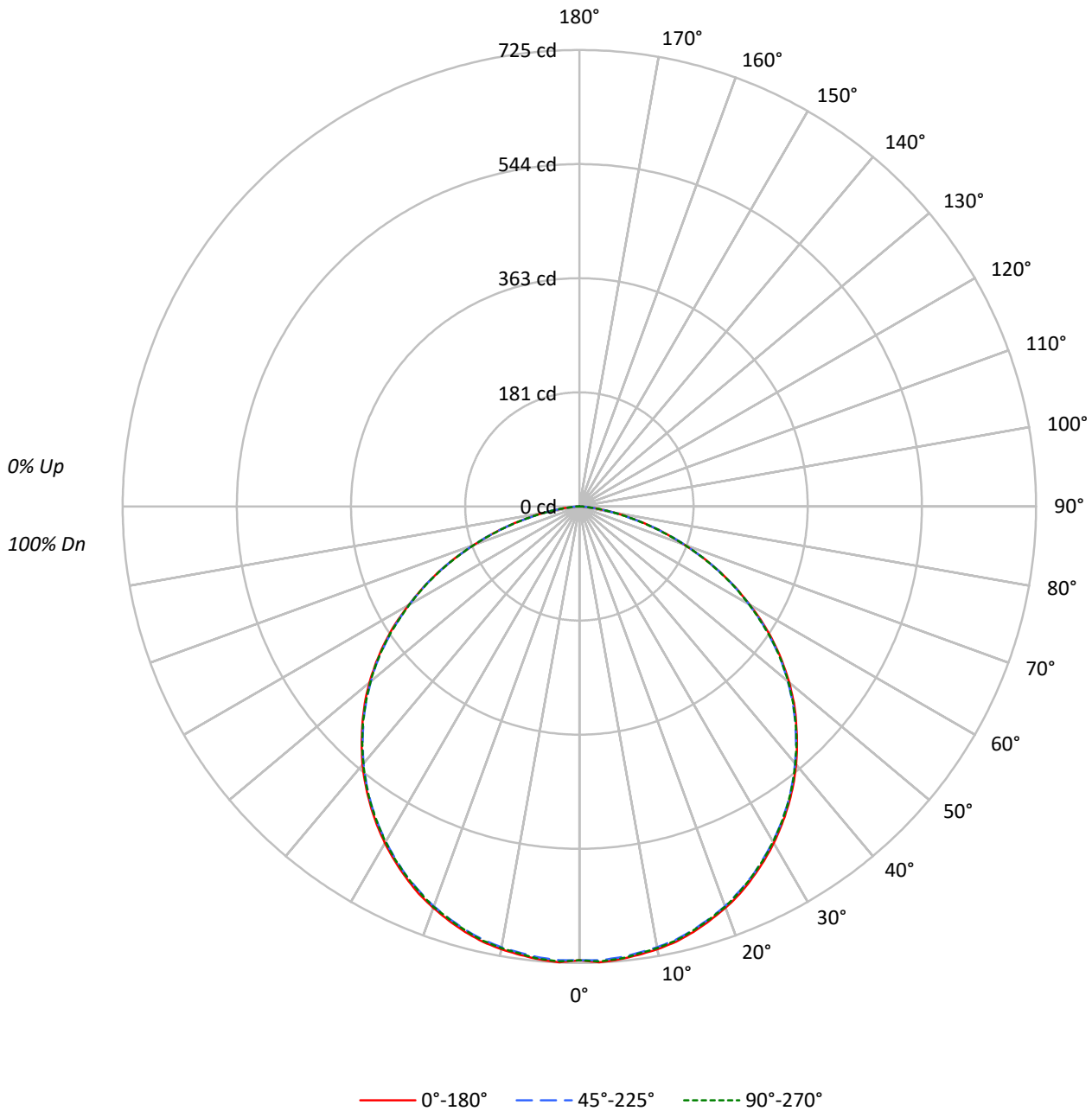
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2015.3 lumens
Efficiency: N/A
Efficacy: 105.0 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

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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°	1939	1939	1939
5°	1951	1943	1949
10°	1951	1943	1946
15°	1949	1941	1943
20°	1943	1935	1938
25°	1932	1924	1926
30°	1918	1910	1912
35°	1901	1894	1895
40°	1881	1872	1873
45°	1853	1845	1848
50°	1821	1808	1811
55°	1769	1754	1760
60°	1682	1674	1674
65°	1570	1568	1562
70°	1390	1397	1394
75°	1171	1161	1152
80°	841	828	821
85°	438	438	426

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1853 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	3.4
10°-20°	196.2	9.7
20°-30°	298.2	14.8
30°-40°	360.5	17.9
40°-50°	374.1	18.6
50°-60°	334.5	16.6
60°-70°	243.2	12.1
70°-80°	119.6	5.9
80°-90°	20.7	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°	562.7	27.9
0°-40°	923.2	45.8
0°-60°	1631.8	81.0
0°-90°	2015.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2015.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	721	721	721	721	721	
5°	722	714	719	717	722	69
15°	700	692	697	695	698	197
25°	651	644	648	647	648	300
35°	579	575	576	577	577	362
45°	487	485	485	486	486	376
55°	377	375	374	375	375	336
65°	247	248	246	246	245	243
75°	113	114	112	112	111	120
85°	14	15	14	14	14	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	720.6	720.6	720.6	720.6	720.6
2.5°	724.7	716.2	721.5	718.4	723.3
5°	722.4	714.0	719.3	716.6	721.5
7.5°	718.4	710.0	715.3	712.6	716.6
10°	714.0	705.1	710.9	708.2	712.2
12.5°	708.2	699.7	705.1	702.8	706.4
15°	699.7	691.7	696.6	694.8	697.5
17.5°	689.5	681.5	686.4	685.0	687.3
20°	678.4	670.8	675.7	674.4	676.6
22.5°	665.9	657.9	662.3	661.4	663.2
25°	650.8	643.6	648.1	646.8	648.5
27.5°	634.7	628.1	631.6	631.6	632.5
30°	617.4	611.1	614.7	614.7	615.2
32.5°	598.7	593.8	596.0	596.5	596.5
35°	578.7	574.6	576.4	576.9	576.9
37.5°	557.7	553.7	555.1	556.0	556.0
40°	535.5	531.9	532.8	533.7	533.3
42.5°	511.4	508.8	509.2	510.1	510.1
45°	487.0	484.7	484.7	485.6	485.6
47.5°	462.0	459.8	458.9	459.8	459.8
50°	434.9	432.7	431.8	432.7	432.7
52.5°	406.4	404.2	404.2	404.2	404.6
55°	377.0	374.8	373.9	374.8	375.2
57.5°	345.9	345.0	343.6	344.1	342.7
60°	312.5	312.5	311.1	312.0	311.1
62.5°	280.0	280.9	279.5	279.5	278.6
65°	246.6	247.5	246.2	246.2	245.3
67.5°	212.3	213.7	211.9	211.9	211.0
70°	176.7	179.4	177.6	178.0	177.2
72.5°	144.7	146.0	144.2	144.2	143.3
75°	112.6	113.5	111.7	112.2	110.8
77.5°	81.0	82.3	80.6	81.0	80.6
80°	54.3	54.7	53.4	53.9	53.0
82.5°	31.6	32.0	31.6	31.2	30.7
85°	14.2	14.7	14.2	14.2	13.8
87.5°	3.6	3.6	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)