

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: P973764

Luminaire Tested: FLR2-22-25HE-L930-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973764
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

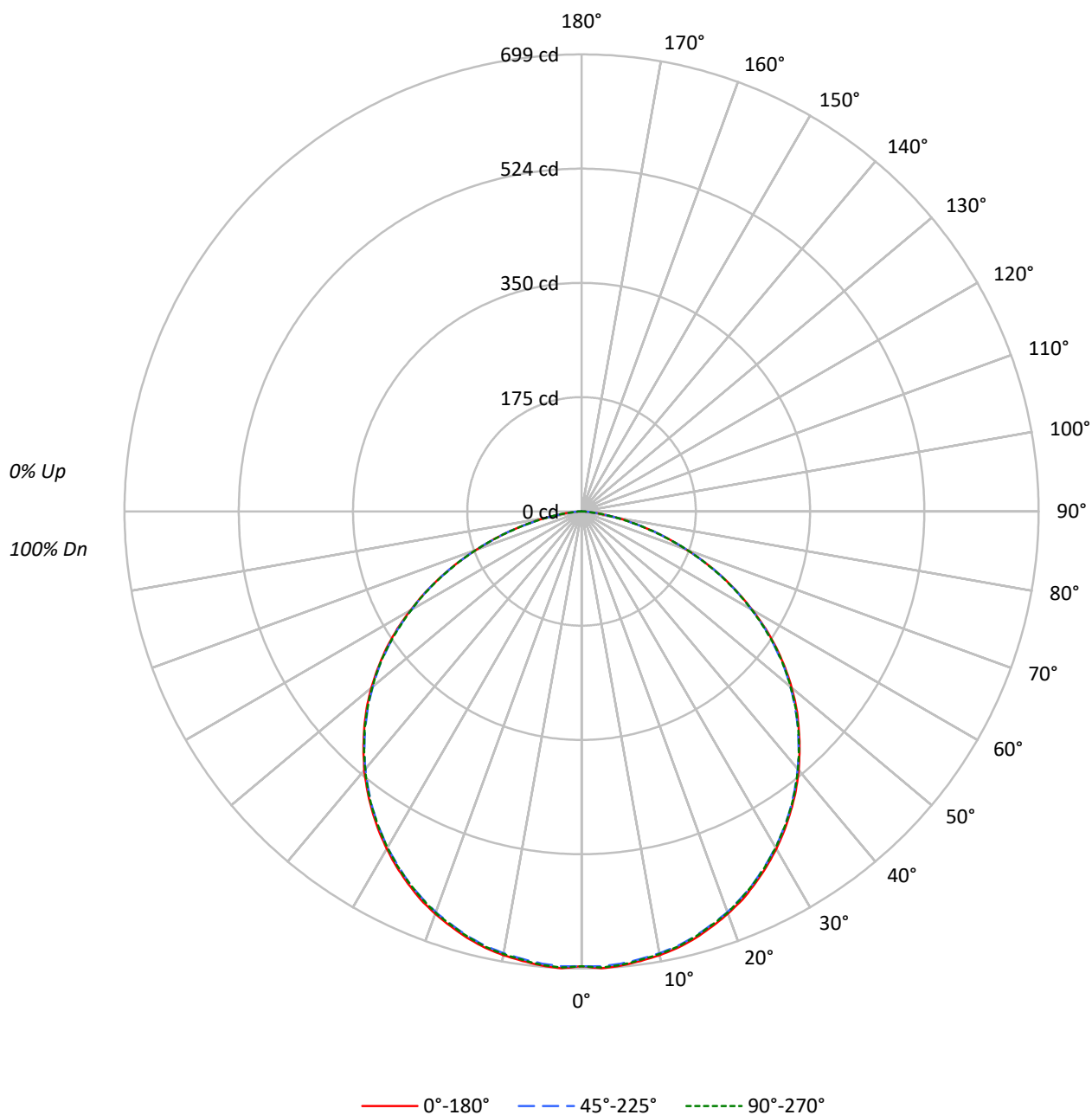
Lumens per Lamp: N/A
Luminaire Lumens: 1945.1 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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		
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85		
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60		
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44		
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1872	1872	1872
5°	1884	1875	1881
10°	1883	1875	1878
15°	1881	1873	1875
20°	1875	1867	1870
25°	1865	1857	1858
30°	1852	1844	1845
35°	1835	1827	1829
40°	1815	1806	1808
45°	1789	1780	1784
50°	1757	1744	1748
55°	1707	1693	1699
60°	1623	1616	1616
65°	1515	1513	1507
70°	1342	1349	1345
75°	1130	1121	1112
80°	812	800	792
85°	423	423	411

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1789 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	3.4
10°-20°	189.4	9.7
20°-30°	287.8	14.8
30°-40°	347.9	17.9
40°-50°	361.1	18.6
50°-60°	322.8	16.6
60°-70°	234.7	12.1
70°-80°	115.4	5.9
80°-90°	20.0	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°	543.1	27.9
0°-40°	891.0	45.8
0°-60°	1574.9	81.0
0°-90°	1945.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1945.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	697	689	694	692	696	66
15°	675	668	672	671	673	191
25°	628	621	626	624	626	289
35°	558	555	556	557	557	349
45°	470	468	468	469	469	363
55°	364	362	361	362	362	324
65°	238	239	238	238	237	235
75°	109	110	108	108	107	115
85°	14	14	14	14	13	20
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	695.5	695.5	695.5	695.5	695.5
2.5°	699.4	691.2	696.4	693.4	698.1
5°	697.3	689.1	694.2	691.7	696.4
7.5°	693.4	685.2	690.4	687.8	691.7
10°	689.1	680.5	686.1	683.5	687.4
12.5°	683.5	675.3	680.5	678.4	681.8
15°	675.3	667.6	672.3	670.6	673.2
17.5°	665.5	657.7	662.5	661.2	663.3
20°	654.7	647.4	652.1	650.9	653.0
22.5°	642.7	635.0	639.3	638.4	640.1
25°	628.1	621.2	625.5	624.2	625.9
27.5°	612.6	606.2	609.6	609.6	610.5
30°	595.9	589.9	593.3	593.3	593.7
32.5°	577.8	573.1	575.2	575.7	575.7
35°	558.5	554.6	556.3	556.8	556.8
37.5°	538.3	534.4	535.7	536.6	536.6
40°	516.8	513.4	514.2	515.1	514.7
42.5°	493.6	491.0	491.5	492.3	492.3
45°	470.0	467.8	467.8	468.7	468.7
47.5°	445.9	443.8	442.9	443.8	443.8
50°	419.7	417.6	416.7	417.6	417.6
52.5°	392.2	390.1	390.1	390.1	390.5
55°	363.9	361.7	360.9	361.7	362.2
57.5°	333.8	332.9	331.7	332.1	330.8
60°	301.6	301.6	300.3	301.2	300.3
62.5°	270.2	271.1	269.8	269.8	268.9
65°	238.0	238.9	237.6	237.6	236.7
67.5°	204.9	206.2	204.5	204.5	203.6
70°	170.6	173.1	171.4	171.8	171.0
72.5°	139.6	140.9	139.2	139.2	138.3
75°	108.7	109.6	107.8	108.3	107.0
77.5°	78.2	79.5	77.8	78.2	77.8
80°	52.4	52.8	51.6	52.0	51.1
82.5°	30.5	30.9	30.5	30.1	29.6
85°	13.7	14.2	13.7	13.7	13.3
87.5°	3.4	3.4	3.4	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)