

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: P973776

Luminaire Tested: FLR2-22-25HE-L930-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973776
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

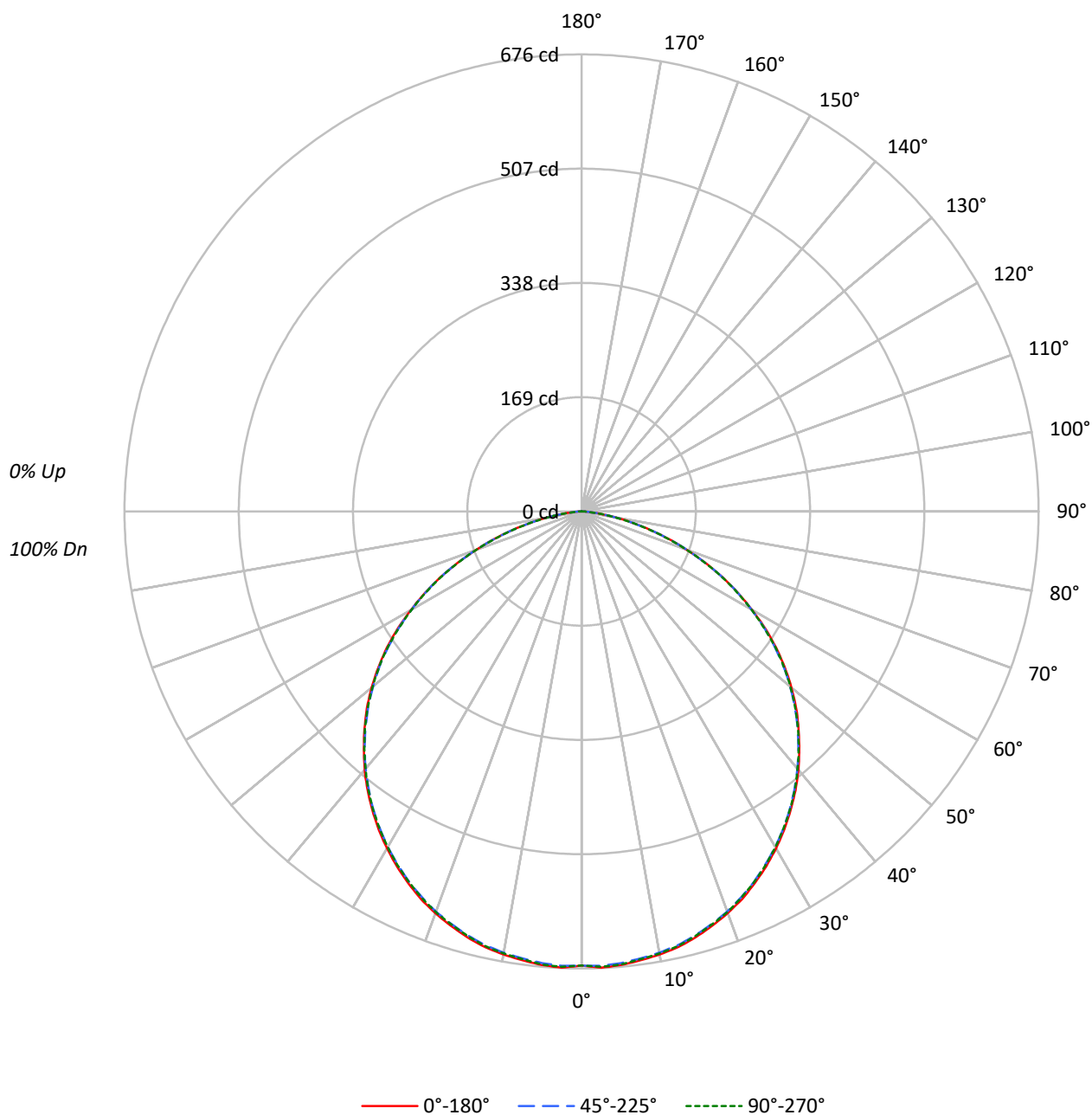
Lumens per Lamp: N/A
Luminaire Lumens: 1878.6 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	1808	1808	1808
5°	1819	1811	1817
10°	1818	1811	1814
15°	1817	1809	1811
20°	1811	1804	1806
25°	1801	1794	1795
30°	1788	1780	1782
35°	1772	1765	1766
40°	1753	1745	1746
45°	1727	1719	1723
50°	1697	1685	1688
55°	1649	1635	1641
60°	1568	1561	1561
65°	1464	1461	1456
70°	1296	1303	1299
75°	1092	1082	1074
80°	784	772	766
85°	411	411	398

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1727 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	3.4
10°-20°	182.9	9.7
20°-30°	278.0	14.8
30°-40°	336.0	17.9
40°-50°	348.7	18.6
50°-60°	311.8	16.6
60°-70°	226.7	12.1
70°-80°	111.5	5.9
80°-90°	19.3	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°	524.5	27.9
0°-40°	860.5	45.8
0°-60°	1521.1	81.0
0°-90°	1878.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1878.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	672	672	672	672	672	
5°	673	666	670	668	673	64
15°	652	645	649	648	650	184
25°	607	600	604	603	604	280
35°	539	536	537	538	538	337
45°	454	452	452	453	453	350
55°	351	349	348	349	350	313
65°	230	231	229	229	229	227
75°	105	106	104	105	103	111
85°	13	14	13	13	13	19
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	671.7	671.7	671.7	671.7	671.7
2.5°	675.5	667.6	672.6	669.7	674.2
5°	673.4	665.5	670.5	668.0	672.6
7.5°	669.7	661.8	666.8	664.3	668.0
10°	665.5	657.2	662.6	660.1	663.9
12.5°	660.1	652.2	657.2	655.2	658.5
15°	652.2	644.8	649.3	647.7	650.2
17.5°	642.7	635.2	639.8	638.6	640.6
20°	632.3	625.3	629.8	628.6	630.7
22.5°	620.7	613.2	617.4	616.6	618.2
25°	606.6	600.0	604.1	602.9	604.5
27.5°	591.7	585.4	588.8	588.8	589.6
30°	575.5	569.7	573.0	573.0	573.4
32.5°	558.1	553.5	555.6	556.0	556.0
35°	539.4	535.7	537.3	537.7	537.7
37.5°	519.9	516.2	517.4	518.2	518.2
40°	499.1	495.8	496.7	497.5	497.1
42.5°	476.7	474.2	474.7	475.5	475.5
45°	453.9	451.8	451.8	452.7	452.7
47.5°	430.7	428.6	427.8	428.6	428.6
50°	405.4	403.3	402.5	403.3	403.3
52.5°	378.8	376.7	376.7	376.7	377.2
55°	351.4	349.4	348.5	349.4	349.8
57.5°	322.4	321.6	320.3	320.7	319.5
60°	291.3	291.3	290.0	290.9	290.0
62.5°	261.0	261.8	260.6	260.6	259.7
65°	229.9	230.7	229.4	229.4	228.6
67.5°	197.9	199.2	197.5	197.5	196.7
70°	164.7	167.2	165.6	166.0	165.1
72.5°	134.8	136.1	134.4	134.4	133.6
75°	105.0	105.8	104.1	104.6	103.3
77.5°	75.5	76.8	75.1	75.5	75.1
80°	50.6	51.0	49.8	50.2	49.4
82.5°	29.5	29.9	29.5	29.0	28.6
85°	13.3	13.7	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)