

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: P974028

Luminaire Tested: FLR2-22-25HE-L950-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974028
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-L950-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

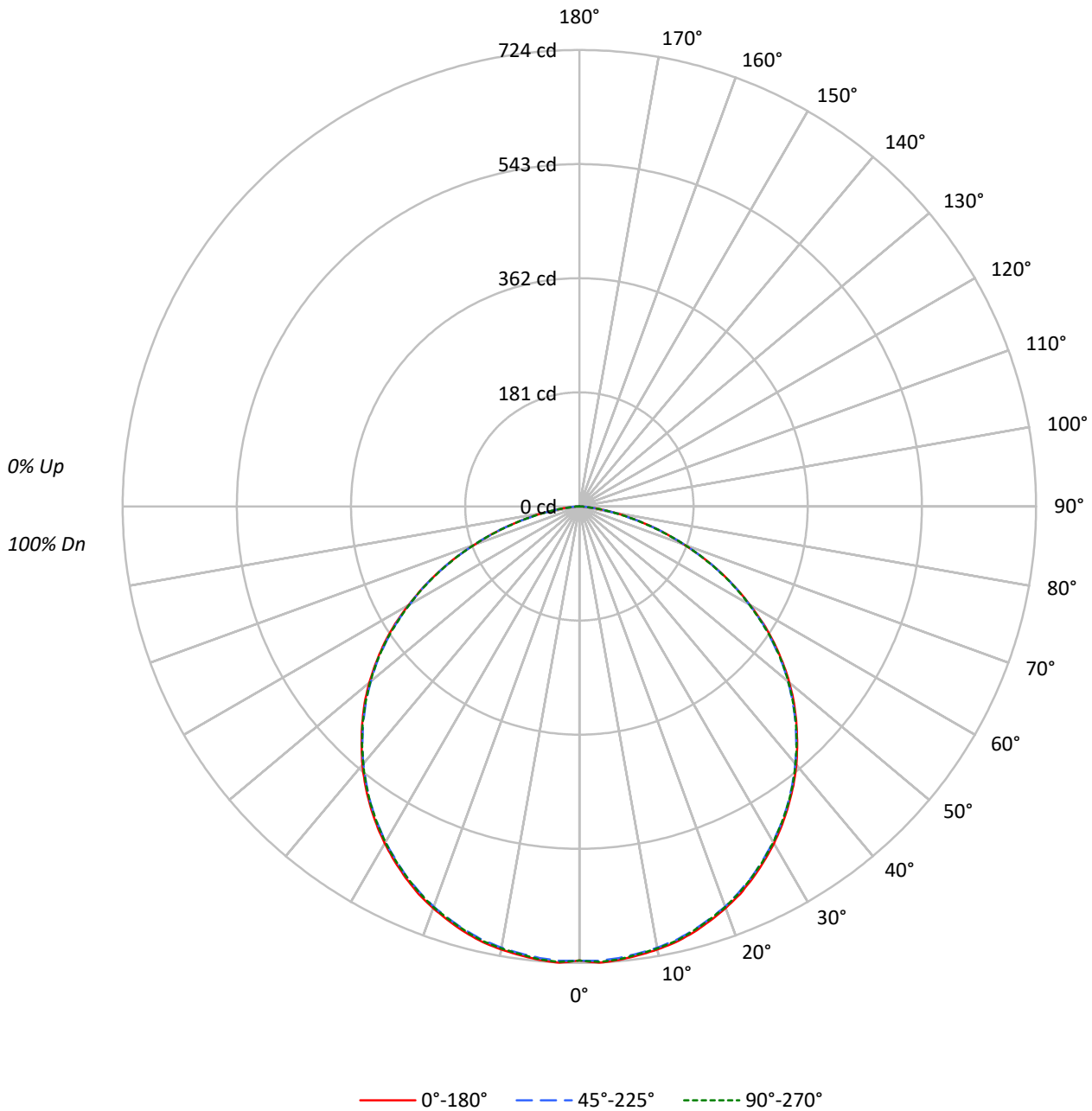
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2014.4 lumens
Efficiency: N/A
Efficacy: 104.9 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									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	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°	1938	1938	1938
5°	1951	1942	1948
10°	1950	1941	1945
15°	1948	1940	1942
20°	1942	1934	1937
25°	1931	1923	1925
30°	1917	1909	1911
35°	1900	1893	1894
40°	1880	1871	1872
45°	1852	1844	1847
50°	1820	1807	1811
55°	1768	1753	1760
60°	1681	1674	1674
65°	1570	1566	1561
70°	1389	1397	1393
75°	1171	1161	1152
80°	841	828	820
85°	438	438	426

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1852 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°	298.1	14.8
30°-40°	360.3	17.9
40°-50°	374.0	18.6
50°-60°	334.3	16.6
60°-70°	243.1	12.1
70°-80°	119.5	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°	562.4	27.9
0°-40°	922.7	45.8
0°-60°	1631.0	81.0
0°-90°	2014.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2014.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	720	720	720	720	720	
5°	722	714	719	716	721	69
15°	699	691	696	694	697	197
25°	650	643	648	646	648	300
35°	578	574	576	577	577	362
45°	487	484	484	485	485	375
55°	377	375	374	375	375	336
65°	246	247	246	246	245	243
75°	113	114	112	112	111	119
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°	720.3	720.3	720.3	720.3	720.3
2.5°	724.3	715.9	721.2	718.1	723.0
5°	722.1	713.6	719.0	716.3	721.2
7.5°	718.1	709.6	715.0	712.3	716.3
10°	713.6	704.7	710.5	707.9	711.9
12.5°	707.9	699.4	704.7	702.5	706.1
15°	699.4	691.4	696.3	694.5	697.2
17.5°	689.2	681.2	686.1	684.7	686.9
20°	678.0	670.5	675.4	674.0	676.3
22.5°	665.6	657.6	662.0	661.1	662.9
25°	650.5	643.3	647.8	646.5	648.2
27.5°	634.4	627.8	631.3	631.3	632.2
30°	617.1	610.9	614.4	614.4	614.9
32.5°	598.4	593.5	595.7	596.2	596.2
35°	578.4	574.4	576.2	576.6	576.6
37.5°	557.5	553.5	554.8	555.7	555.7
40°	535.2	531.7	532.6	533.4	533.0
42.5°	511.2	508.5	509.0	509.9	509.9
45°	486.7	484.5	484.5	485.4	485.4
47.5°	461.8	459.6	458.7	459.6	459.6
50°	434.7	432.5	431.6	432.5	432.5
52.5°	406.2	404.0	404.0	404.0	404.4
55°	376.8	374.6	373.7	374.6	375.1
57.5°	345.7	344.8	343.5	343.9	342.6
60°	312.3	312.3	311.0	311.9	311.0
62.5°	279.8	280.7	279.4	279.4	278.5
65°	246.5	247.4	246.0	246.0	245.1
67.5°	212.2	213.6	211.8	211.8	210.9
70°	176.6	179.3	177.5	178.0	177.1
72.5°	144.6	145.9	144.2	144.2	143.3
75°	112.6	113.5	111.7	112.1	110.8
77.5°	81.0	82.3	80.5	81.0	80.5
80°	54.3	54.7	53.4	53.8	52.9
82.5°	31.6	32.0	31.6	31.1	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)