

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: P973878

Luminaire Tested: FLR2-22-25HE-L935-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973878
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-L935-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

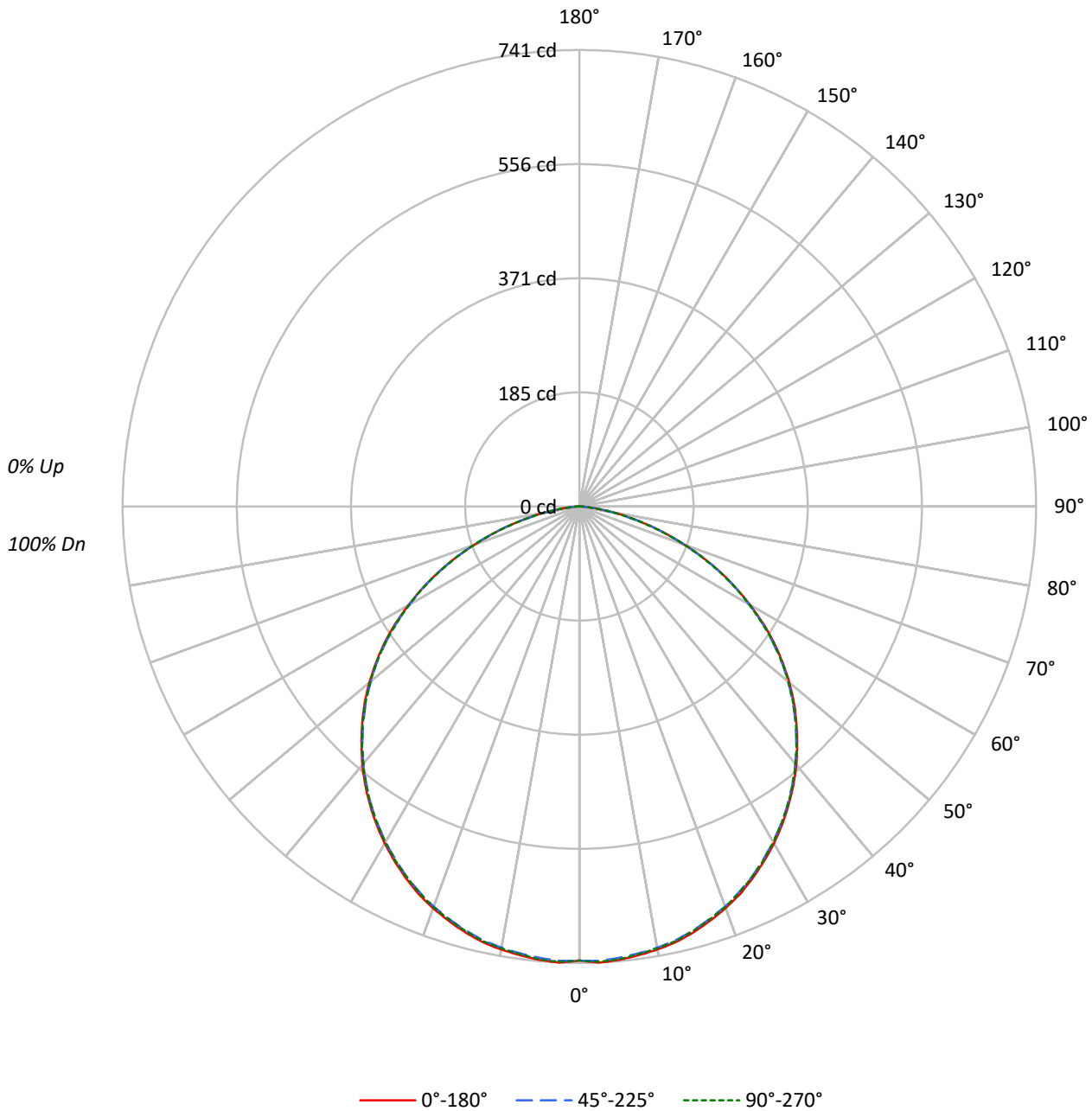
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2061.6 lumens
Efficiency: N/A
Efficacy: 107.4 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°	1984	1984	1984
5°	1996	1988	1994
10°	1996	1987	1991
15°	1994	1985	1988
20°	1987	1979	1982
25°	1977	1969	1970
30°	1963	1954	1955
35°	1945	1937	1939
40°	1924	1915	1916
45°	1896	1887	1891
50°	1863	1849	1853
55°	1810	1795	1801
60°	1721	1713	1713
65°	1606	1603	1598
70°	1423	1430	1426
75°	1198	1188	1179
80°	862	846	840
85°	451	451	435

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1896 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	3.4
10°-20°	200.8	9.7
20°-30°	305.1	14.8
30°-40°	368.7	17.9
40°-50°	382.7	18.6
50°-60°	342.2	16.6
60°-70°	248.8	12.1
70°-80°	122.3	5.9
80°-90°	21.2	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°	575.6	27.9
0°-40°	944.4	45.8
0°-60°	1669.3	81.0
0°-90°	2061.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2061.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	737	737	737	737	737	
5°	739	730	736	733	738	70
15°	716	708	713	711	714	202
25°	666	658	663	662	663	307
35°	592	588	590	590	590	370
45°	498	496	496	497	497	384
55°	386	383	382	383	384	344
65°	252	253	252	252	251	249
75°	115	116	114	115	113	122
85°	15	15	15	15	14	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	737.2	737.2	737.2	737.2	737.2
2.5°	741.3	732.7	738.1	734.9	739.9
5°	739.0	730.4	735.8	733.1	738.1
7.5°	734.9	726.3	731.8	729.0	733.1
10°	730.4	721.3	727.2	724.5	728.6
12.5°	724.5	715.8	721.3	719.0	722.6
15°	715.8	707.6	712.6	710.8	713.5
17.5°	705.3	697.1	702.2	700.8	703.1
20°	694.0	686.2	691.2	689.9	692.1
22.5°	681.2	673.0	677.6	676.7	678.5
25°	665.7	658.4	663.0	661.6	663.4
27.5°	649.3	642.5	646.1	646.1	647.1
30°	631.6	625.2	628.8	628.8	629.3
32.5°	612.4	607.4	609.7	610.2	610.2
35°	592.0	587.9	589.7	590.1	590.1
37.5°	570.6	566.5	567.8	568.7	568.7
40°	547.8	544.1	545.1	546.0	545.5
42.5°	523.2	520.5	520.9	521.8	521.8
45°	498.2	495.9	495.9	496.8	496.8
47.5°	472.7	470.4	469.5	470.4	470.4
50°	444.9	442.6	441.7	442.6	442.6
52.5°	415.7	413.5	413.5	413.5	413.9
55°	385.7	383.4	382.5	383.4	383.9
57.5°	353.8	352.9	351.5	352.0	350.6
60°	319.7	319.7	318.3	319.2	318.3
62.5°	286.4	287.3	286.0	286.0	285.1
65°	252.3	253.2	251.8	251.8	250.9
67.5°	217.2	218.6	216.7	216.7	215.8
70°	180.8	183.5	181.7	182.1	181.2
72.5°	148.0	149.4	147.5	147.5	146.6
75°	115.2	116.1	114.3	114.7	113.4
77.5°	82.9	84.2	82.4	82.9	82.4
80°	55.6	56.0	54.6	55.1	54.2
82.5°	32.3	32.8	32.3	31.9	31.4
85°	14.6	15.0	14.6	14.6	14.1
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)