

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: P973848

Luminaire Tested: FLR2-22-25HE-L935-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973848
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

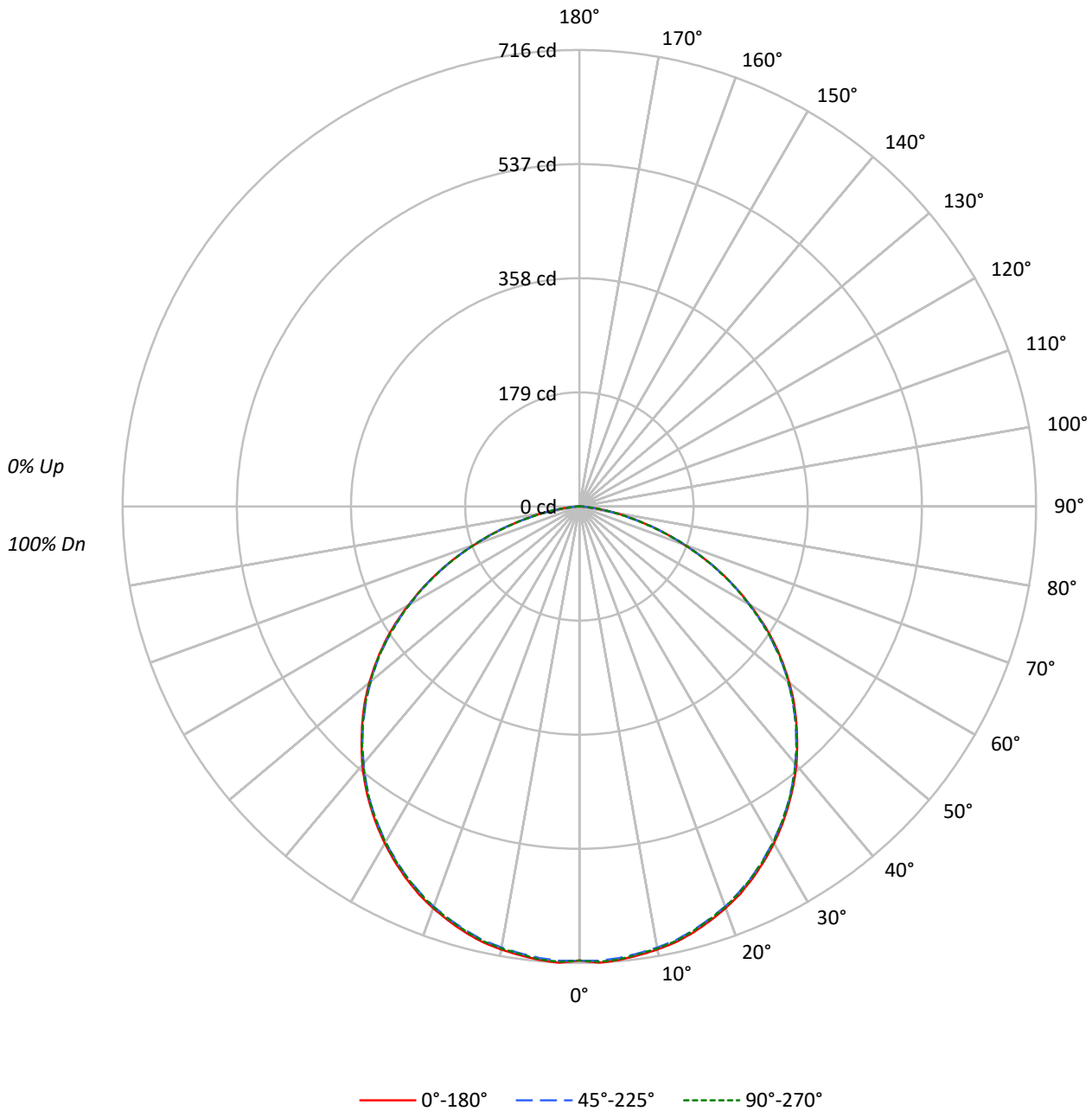
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1991.9 lumens
Efficiency: N/A
Efficacy: 103.7 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°	1917	1917	1917
5°	1929	1921	1927
10°	1928	1920	1923
15°	1927	1918	1921
20°	1920	1913	1915
25°	1910	1902	1903
30°	1896	1888	1889
35°	1879	1872	1873
40°	1859	1850	1852
45°	1832	1823	1827
50°	1799	1787	1790
55°	1748	1734	1740
60°	1662	1655	1655
65°	1552	1549	1543
70°	1375	1381	1378
75°	1157	1148	1140
80°	832	818	812
85°	435	435	420

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1832 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	3.4
10°-20°	194.0	9.7
20°-30°	294.8	14.8
30°-40°	356.3	17.9
40°-50°	369.8	18.6
50°-60°	330.6	16.6
60°-70°	240.4	12.1
70°-80°	118.2	5.9
80°-90°	20.5	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°	556.2	27.9
0°-40°	912.5	45.8
0°-60°	1612.9	81.0
0°-90°	1991.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1991.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	712	712	712	712	712	
5°	714	706	711	708	713	68
15°	692	684	688	687	689	195
25°	643	636	641	639	641	296
35°	572	568	570	570	570	358
45°	481	479	479	480	480	371
55°	373	370	370	370	371	332
65°	244	245	243	243	242	240
75°	111	112	110	111	110	118
85°	14	14	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°	712.3	712.3	712.3	712.3	712.3
2.5°	716.3	707.9	713.2	710.1	714.9
5°	714.1	705.7	711.0	708.3	713.2
7.5°	710.1	701.7	707.0	704.4	708.3
10°	705.7	696.9	702.6	700.0	703.9
12.5°	700.0	691.6	696.9	694.7	698.2
15°	691.6	683.7	688.5	686.8	689.4
17.5°	681.5	673.6	678.4	677.1	679.3
20°	670.5	663.0	667.9	666.5	668.7
22.5°	658.2	650.3	654.7	653.8	655.5
25°	643.2	636.2	640.6	639.3	641.0
27.5°	627.4	620.8	624.3	624.3	625.2
30°	610.2	604.1	607.6	607.6	608.0
32.5°	591.7	586.9	589.1	589.5	589.5
35°	572.0	568.0	569.8	570.2	570.2
37.5°	551.3	547.3	548.6	549.5	549.5
40°	529.3	525.8	526.6	527.5	527.1
42.5°	505.5	502.9	503.3	504.2	504.2
45°	481.3	479.1	479.1	480.0	480.0
47.5°	456.7	454.5	453.6	454.5	454.5
50°	429.8	427.6	426.8	427.6	427.6
52.5°	401.7	399.5	399.5	399.5	399.9
55°	372.6	370.4	369.6	370.4	370.9
57.5°	341.9	341.0	339.7	340.1	338.8
60°	308.9	308.9	307.5	308.4	307.5
62.5°	276.7	277.6	276.3	276.3	275.4
65°	243.7	244.6	243.3	243.3	242.4
67.5°	209.9	211.2	209.4	209.4	208.5
70°	174.7	177.3	175.5	176.0	175.1
72.5°	143.0	144.3	142.5	142.5	141.7
75°	111.3	112.2	110.4	110.9	109.6
77.5°	80.1	81.4	79.6	80.1	79.6
80°	53.7	54.1	52.8	53.2	52.4
82.5°	31.2	31.7	31.2	30.8	30.4
85°	14.1	14.5	14.1	14.1	13.6
87.5°	3.5	3.5	3.5	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)