

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: P973950

Luminaire Tested: FLR2-22-25HE-L940-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973950
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-L940-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

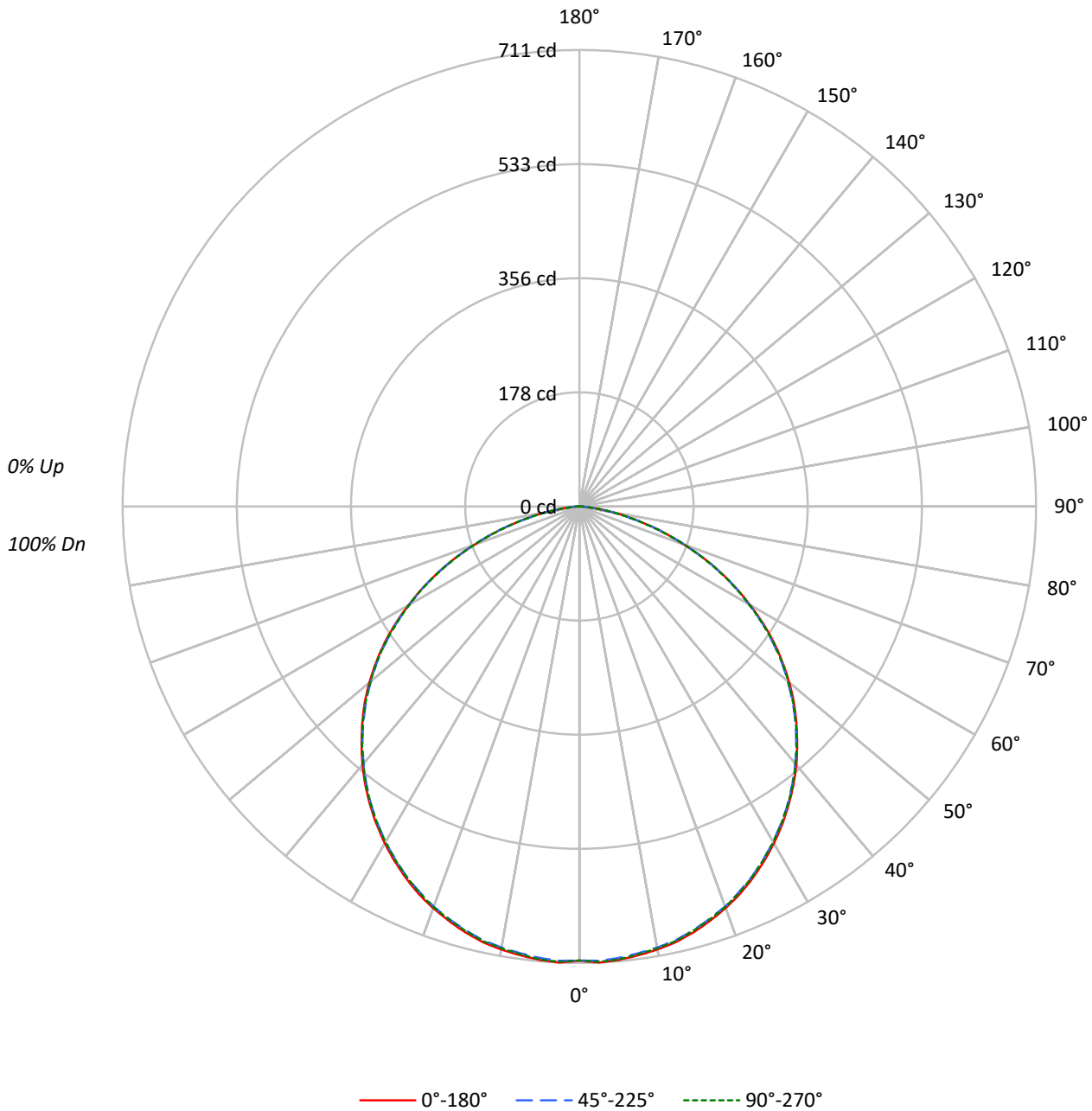
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1977.8 lumens
Efficiency: N/A
Efficacy: 103.0 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				10	0
RW	70	50	30	10	70	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
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°	1903	1903	1903
5°	1915	1907	1913
10°	1915	1906	1910
15°	1913	1905	1907
20°	1906	1899	1901
25°	1896	1888	1890
30°	1883	1875	1876
35°	1866	1858	1860
40°	1846	1837	1838
45°	1819	1810	1814
50°	1787	1774	1778
55°	1736	1721	1728
60°	1651	1643	1643
65°	1541	1538	1533
70°	1364	1371	1368
75°	1149	1140	1131
80°	826	812	806
85°	432	432	417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1819 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	3.4
10°-20°	192.6	9.7
20°-30°	292.7	14.8
30°-40°	353.7	17.9
40°-50°	367.2	18.6
50°-60°	328.2	16.6
60°-70°	238.7	12.1
70°-80°	117.4	5.9
80°-90°	20.4	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°	552.2	27.9
0°-40°	906.0	45.8
0°-60°	1601.4	81.0
0°-90°	1977.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1977.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	707	707	707	707	707	
5°	709	701	706	703	708	67
15°	687	679	684	682	684	194
25°	639	632	636	635	636	294
35°	568	564	566	566	566	355
45°	478	476	476	477	477	369
55°	370	368	367	368	368	330
65°	242	243	242	242	241	239
75°	110	111	110	110	109	117
85°	14	14	14	14	14	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	707.2	707.2	707.2	707.2	707.2
2.5°	711.2	702.9	708.1	705.1	709.9
5°	709.0	700.7	705.9	703.3	708.1
7.5°	705.1	696.8	702.0	699.4	703.3
10°	700.7	692.0	697.6	695.0	698.9
12.5°	695.0	686.7	692.0	689.8	693.3
15°	686.7	678.8	683.7	681.9	684.5
17.5°	676.7	668.8	673.6	672.3	674.5
20°	665.7	658.3	663.1	661.8	664.0
22.5°	653.5	645.6	650.0	649.1	650.9
25°	638.7	631.7	636.0	634.7	636.5
27.5°	622.9	616.4	619.9	619.9	620.7
30°	605.9	599.8	603.3	603.3	603.7
32.5°	587.5	582.7	584.9	585.4	585.4
35°	567.9	564.0	565.7	566.1	566.1
37.5°	547.4	543.4	544.7	545.6	545.6
40°	525.5	522.0	522.9	523.8	523.3
42.5°	501.9	499.3	499.7	500.6	500.6
45°	477.9	475.7	475.7	476.6	476.6
47.5°	453.4	451.3	450.4	451.3	451.3
50°	426.8	424.6	423.7	424.6	424.6
52.5°	398.8	396.6	396.6	396.6	397.1
55°	370.0	367.8	366.9	367.8	368.3
57.5°	339.4	338.5	337.2	337.7	336.4
60°	306.7	306.7	305.3	306.2	305.3
62.5°	274.8	275.6	274.3	274.3	273.5
65°	242.0	242.9	241.6	241.6	240.7
67.5°	208.4	209.7	207.9	207.9	207.1
70°	173.4	176.0	174.3	174.7	173.9
72.5°	142.0	143.3	141.5	141.5	140.7
75°	110.5	111.4	109.6	110.1	108.8
77.5°	79.5	80.8	79.1	79.5	79.1
80°	53.3	53.7	52.4	52.9	52.0
82.5°	31.0	31.5	31.0	30.6	30.1
85°	14.0	14.4	14.0	14.0	13.5
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)