

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: P973932

Luminaire Tested: FLR2-22-25HE-L940-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973932
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

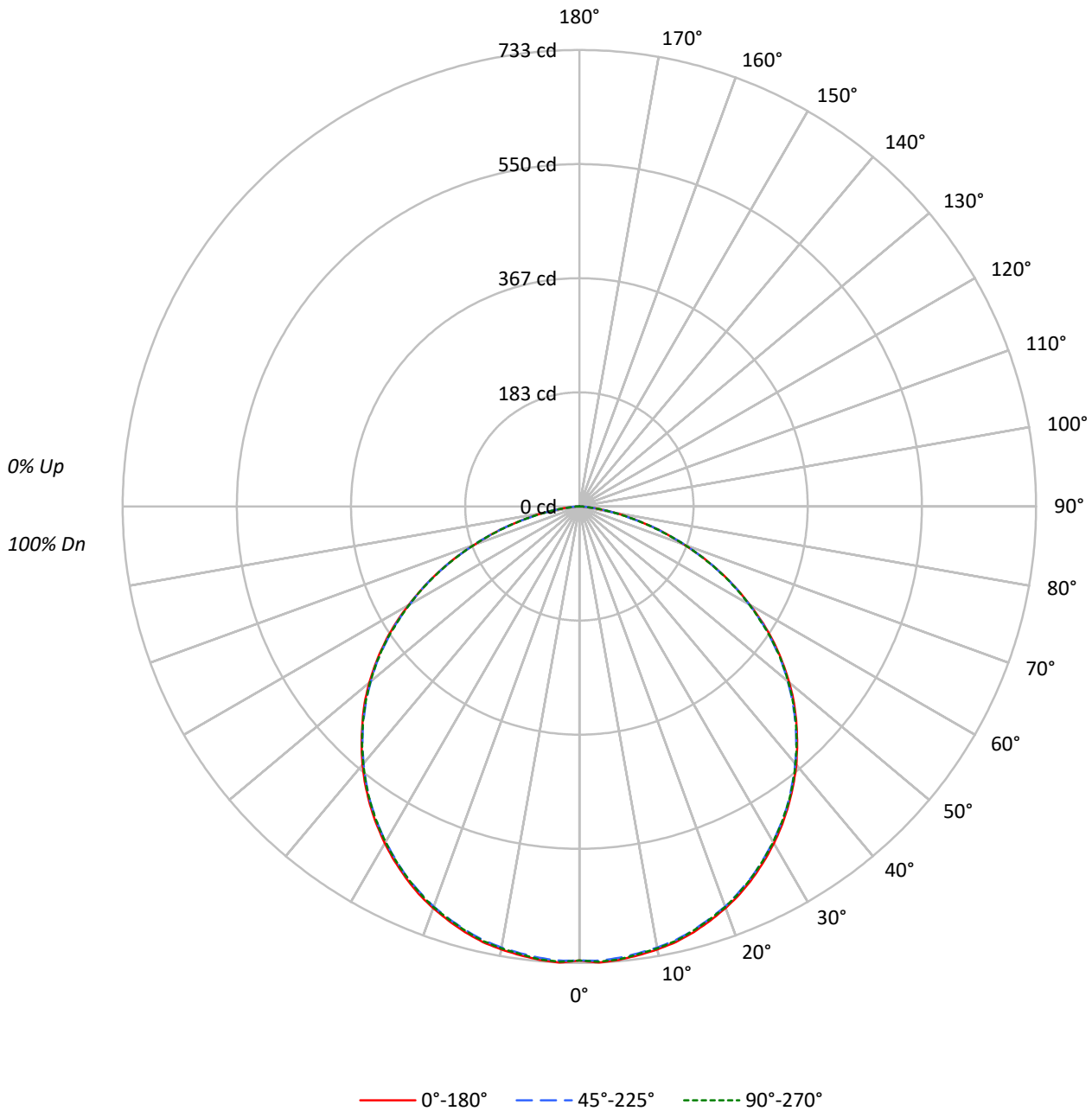
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2038.8 lumens
Efficiency: N/A
Efficacy: 106.2 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°	1962	1962	1962
5°	1974	1966	1972
10°	1974	1965	1969
15°	1972	1963	1966
20°	1965	1958	1960
25°	1955	1947	1948
30°	1941	1932	1934
35°	1923	1916	1917
40°	1903	1893	1895
45°	1875	1866	1870
50°	1842	1829	1832
55°	1789	1775	1781
60°	1701	1694	1694
65°	1589	1585	1580
70°	1407	1414	1410
75°	1184	1175	1166
80°	851	837	831
85°	445	445	432

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1875 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	3.4
10°-20°	198.5	9.7
20°-30°	301.7	14.8
30°-40°	364.7	17.9
40°-50°	378.5	18.6
50°-60°	338.4	16.6
60°-70°	246.0	12.1
70°-80°	121.0	5.9
80°-90°	21.0	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°	569.3	27.9
0°-40°	933.9	45.8
0°-60°	1650.8	81.0
0°-90°	2038.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2038.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	729	729	729	729	729	
5°	731	722	728	725	730	69
15°	708	700	705	703	706	200
25°	658	651	656	654	656	303
35°	585	581	583	584	584	366
45°	493	490	490	491	491	380
55°	381	379	378	379	380	340
65°	250	250	249	249	248	246
75°	114	115	113	114	112	121
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°	729.1	729.1	729.1	729.1	729.1
2.5°	733.1	724.6	730.0	726.8	731.8
5°	730.9	722.3	727.7	725.0	730.0
7.5°	726.8	718.3	723.7	721.0	725.0
10°	722.3	713.3	719.2	716.4	720.5
12.5°	716.4	707.9	713.3	711.0	714.6
15°	707.9	699.8	704.7	702.9	705.6
17.5°	697.5	689.4	694.4	693.0	695.3
20°	686.3	678.6	683.6	682.2	684.5
22.5°	673.7	665.6	670.1	669.2	671.0
25°	658.4	651.2	655.7	654.3	656.1
27.5°	642.1	635.4	639.0	639.0	639.9
30°	624.6	618.3	621.9	621.9	622.3
32.5°	605.7	600.7	603.0	603.4	603.4
35°	585.4	581.4	583.2	583.6	583.6
37.5°	564.2	560.2	561.5	562.4	562.4
40°	541.7	538.1	539.0	539.9	539.5
42.5°	517.4	514.7	515.2	516.1	516.1
45°	492.6	490.4	490.4	491.3	491.3
47.5°	467.4	465.2	464.3	465.2	465.2
50°	440.0	437.7	436.8	437.7	437.7
52.5°	411.1	408.9	408.9	408.9	409.3
55°	381.4	379.2	378.3	379.2	379.6
57.5°	349.9	349.0	347.6	348.1	346.7
60°	316.1	316.1	314.8	315.7	314.8
62.5°	283.2	284.1	282.8	282.8	281.9
65°	249.5	250.4	249.0	249.0	248.1
67.5°	214.8	216.2	214.3	214.3	213.4
70°	178.8	181.5	179.7	180.1	179.2
72.5°	146.4	147.7	145.9	145.9	145.0
75°	113.9	114.8	113.0	113.5	112.1
77.5°	82.0	83.3	81.5	82.0	81.5
80°	54.9	55.4	54.0	54.5	53.6
82.5°	32.0	32.4	32.0	31.5	31.1
85°	14.4	14.9	14.4	14.4	14.0
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)