

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: P974044

Luminaire Tested: FLR2-22-60HE-L950-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974044
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: FLR2-22-60HE-L950-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

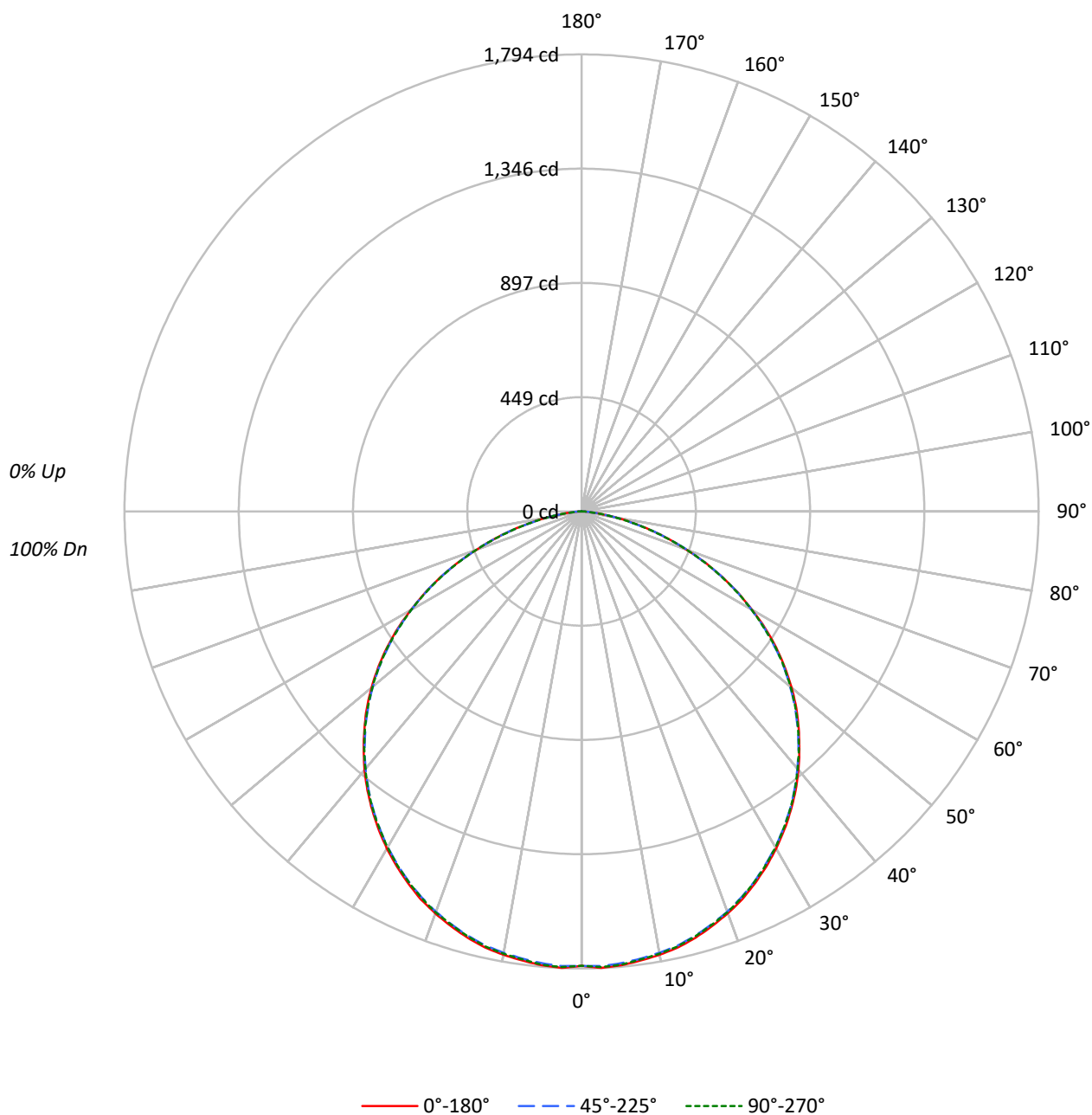
Lumens per Lamp: N/A
Luminaire Lumens: 4987.9 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47.4
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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°	4800	4800	4800
5°	4830	4809	4824
10°	4829	4808	4817
15°	4825	4803	4809
20°	4808	4789	4795
25°	4782	4763	4766
30°	4748	4727	4731
35°	4705	4687	4690
40°	4656	4632	4636
45°	4587	4566	4574
50°	4506	4474	4483
55°	4378	4342	4357
60°	4162	4145	4145
65°	3886	3879	3865
70°	3441	3459	3450
75°	2898	2875	2852
80°	2083	2049	2032
85°	1090	1090	1056

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4587 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	3.4
10°-20°	485.7	9.7
20°-30°	738.1	14.8
30°-40°	892.1	17.9
40°-50°	926.0	18.6
50°-60°	827.9	16.6
60°-70°	601.9	12.1
70°-80°	296.0	5.9
80°-90°	51.3	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°	1392.7	27.9
0°-40°	2284.8	45.8
0°-60°	4038.6	81.0
0°-90°	4987.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4987.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1784	1784	1784	1784	1784	
5°	1788	1767	1780	1774	1786	170
15°	1732	1712	1724	1720	1726	489
25°	1611	1593	1604	1601	1605	742
35°	1432	1422	1427	1428	1428	896
45°	1205	1200	1200	1202	1202	930
55°	933	928	925	928	929	832
65°	610	612	609	609	607	602
75°	279	281	276	278	274	296
85°	35	36	35	35	34	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1783.6	1783.6	1783.6	1783.6	1783.6
2.5°	1793.5	1772.6	1785.8	1778.1	1790.2
5°	1788.0	1767.1	1780.3	1773.7	1785.8
7.5°	1778.1	1757.2	1770.4	1763.8	1773.7
10°	1767.1	1745.0	1759.4	1752.7	1762.7
12.5°	1752.7	1731.8	1745.0	1739.5	1748.3
15°	1731.8	1712.0	1724.1	1719.7	1726.3
17.5°	1706.5	1686.6	1698.8	1695.5	1701.0
20°	1678.9	1660.2	1672.3	1669.0	1674.5
22.5°	1648.1	1628.3	1639.3	1637.1	1641.5
25°	1610.6	1593.0	1604.0	1600.7	1605.1
27.5°	1571.0	1554.4	1563.3	1563.3	1565.5
30°	1528.0	1512.6	1521.4	1521.4	1522.5
32.5°	1481.7	1469.6	1475.1	1476.2	1476.2
35°	1432.2	1422.2	1426.7	1427.8	1427.8
37.5°	1380.4	1370.5	1373.8	1376.0	1376.0
40°	1325.3	1316.5	1318.7	1320.9	1319.8
42.5°	1265.8	1259.2	1260.3	1262.5	1262.5
45°	1205.2	1199.7	1199.7	1201.9	1201.9
47.5°	1143.5	1138.0	1135.8	1138.0	1138.0
50°	1076.3	1070.8	1068.6	1070.8	1070.8
52.5°	1005.8	1000.3	1000.3	1000.3	1001.4
55°	933.1	927.6	925.4	927.6	928.7
57.5°	856.0	853.8	850.5	851.6	848.3
60°	773.4	773.4	770.1	772.3	770.1
62.5°	692.9	695.1	691.8	691.8	689.6
65°	610.3	612.5	609.2	609.2	607.0
67.5°	525.5	528.8	524.4	524.4	522.2
70°	437.4	444.0	439.6	440.7	438.5
72.5°	358.0	361.3	356.9	356.9	354.7
75°	278.7	280.9	276.5	277.6	274.3
77.5°	200.5	203.8	199.4	200.5	199.4
80°	134.4	135.5	132.2	133.3	131.1
82.5°	78.2	79.3	78.2	77.1	76.0
85°	35.3	36.4	35.3	35.3	34.2
87.5°	8.8	8.8	8.8	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)