

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: P973661

Luminaire Tested: FLR2-22-20-L940-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973661
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: FLR2-22-20-L940-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

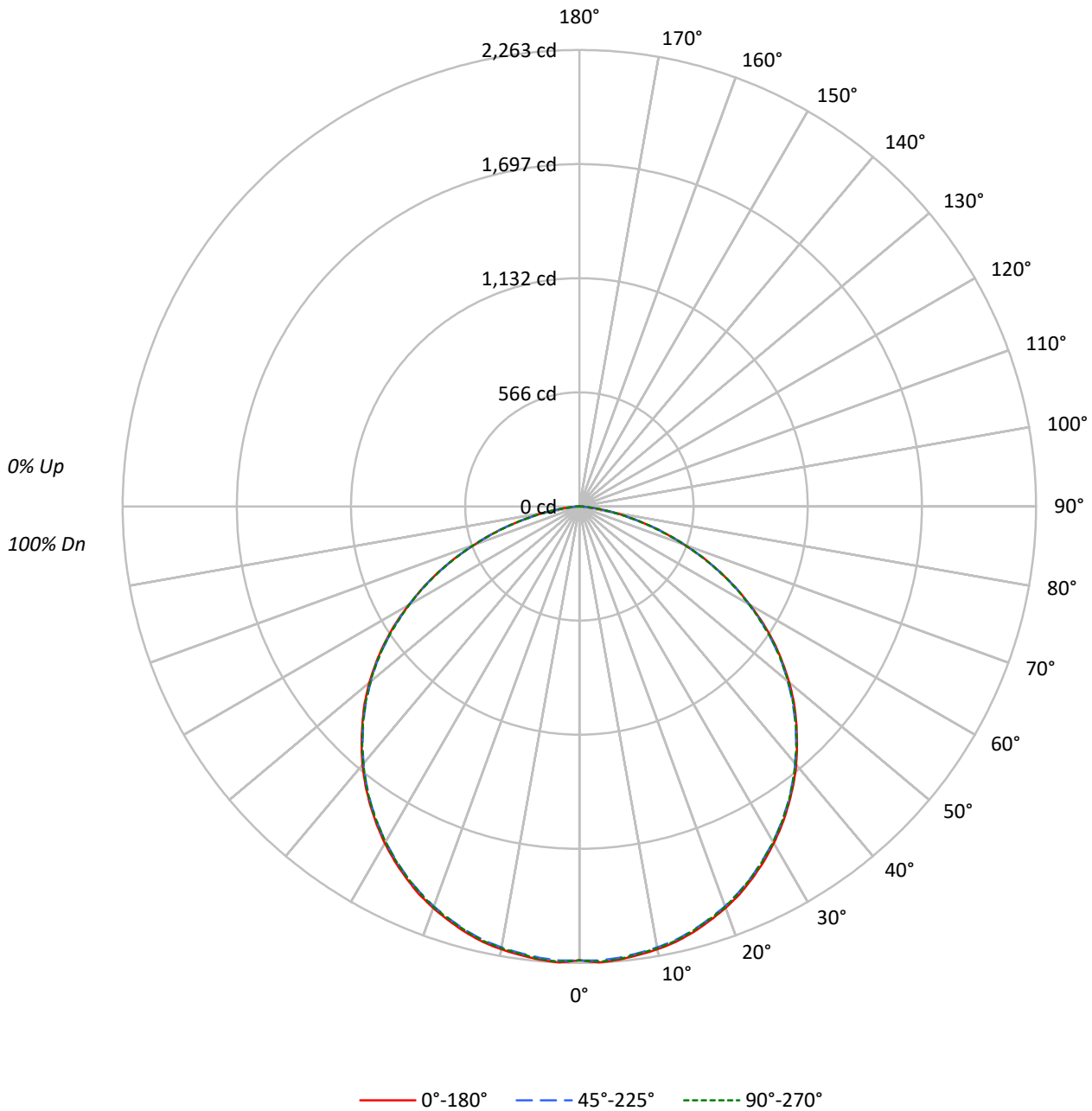
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6292.8 lumens
Efficiency: N/A
Efficacy: 416.7 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): 15.1
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°	6055	6055	6055
5°	6093	6067	6086
10°	6092	6065	6077
15°	6087	6060	6067
20°	6066	6042	6050
25°	6033	6008	6013
30°	5990	5964	5968
35°	5935	5913	5917
40°	5873	5844	5849
45°	5786	5760	5770
50°	5685	5644	5656
55°	5523	5477	5497
60°	5251	5229	5229
65°	4903	4894	4876
70°	4342	4364	4353
75°	3656	3628	3598
80°	2628	2585	2563
85°	1374	1374	1331

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5786 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.1	3.4
10°-20°	612.8	9.7
20°-30°	931.2	14.8
30°-40°	1125.5	17.9
40°-50°	1168.2	18.6
50°-60°	1044.4	16.6
60°-70°	759.4	12.1
70°-80°	373.4	5.9
80°-90°	64.8	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°	1757.0	27.9
0°-40°	2882.5	45.8
0°-60°	5095.2	81.0
0°-90°	6292.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6292.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2250	2250	2250	2250	2250	
5°	2256	2229	2246	2238	2253	214
15°	2185	2160	2175	2170	2178	617
25°	2032	2010	2024	2020	2025	937
35°	1807	1794	1800	1801	1801	1130
45°	1520	1514	1514	1516	1516	1173
55°	1177	1170	1168	1170	1172	1049
65°	770	773	769	769	766	759
75°	352	354	349	350	346	373
85°	44	46	44	44	43	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2250.2	2250.2	2250.2	2250.2	2250.2
2.5°	2262.7	2236.3	2253.0	2243.2	2258.5
5°	2255.8	2229.4	2246.0	2237.7	2253.0
7.5°	2243.2	2216.8	2233.5	2225.2	2237.7
10°	2229.4	2201.6	2219.6	2211.3	2223.8
12.5°	2211.3	2184.9	2201.6	2194.6	2205.7
15°	2184.9	2159.9	2175.1	2169.6	2177.9
17.5°	2152.9	2127.9	2143.2	2139.0	2146.0
20°	2118.2	2094.5	2109.8	2105.7	2112.6
22.5°	2079.2	2054.2	2068.1	2065.3	2070.9
25°	2032.0	2009.8	2023.6	2019.5	2025.0
27.5°	1982.0	1961.1	1972.2	1972.2	1975.0
30°	1927.7	1908.3	1919.4	1919.4	1920.8
32.5°	1869.4	1854.1	1861.0	1862.4	1862.4
35°	1806.8	1794.3	1799.9	1801.3	1801.3
37.5°	1741.5	1729.0	1733.2	1735.9	1735.9
40°	1672.0	1660.9	1663.7	1666.5	1665.1
42.5°	1597.0	1588.6	1590.0	1592.8	1592.8
45°	1520.5	1513.6	1513.6	1516.3	1516.3
47.5°	1442.7	1435.7	1433.0	1435.7	1435.7
50°	1357.9	1351.0	1348.2	1351.0	1351.0
52.5°	1269.0	1262.0	1262.0	1262.0	1263.4
55°	1177.2	1170.3	1167.5	1170.3	1171.7
57.5°	1079.9	1077.1	1073.0	1074.4	1070.2
60°	975.7	975.7	971.5	974.3	971.5
62.5°	874.2	877.0	872.8	872.8	870.1
65°	770.0	772.8	768.6	768.6	765.8
67.5°	663.0	667.1	661.6	661.6	658.8
70°	551.8	560.1	554.6	555.9	553.2
72.5°	451.7	455.9	450.3	450.3	447.5
75°	351.6	354.4	348.9	350.2	346.1
77.5°	253.0	257.1	251.6	253.0	251.6
80°	169.6	171.0	166.8	168.2	165.4
82.5°	98.7	100.1	98.7	97.3	95.9
85°	44.5	45.9	44.5	44.5	43.1
87.5°	11.1	11.1	11.1	11.1	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)