

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: P973605

Luminaire Tested: FLR2-22-20-L935-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973605
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-L935-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

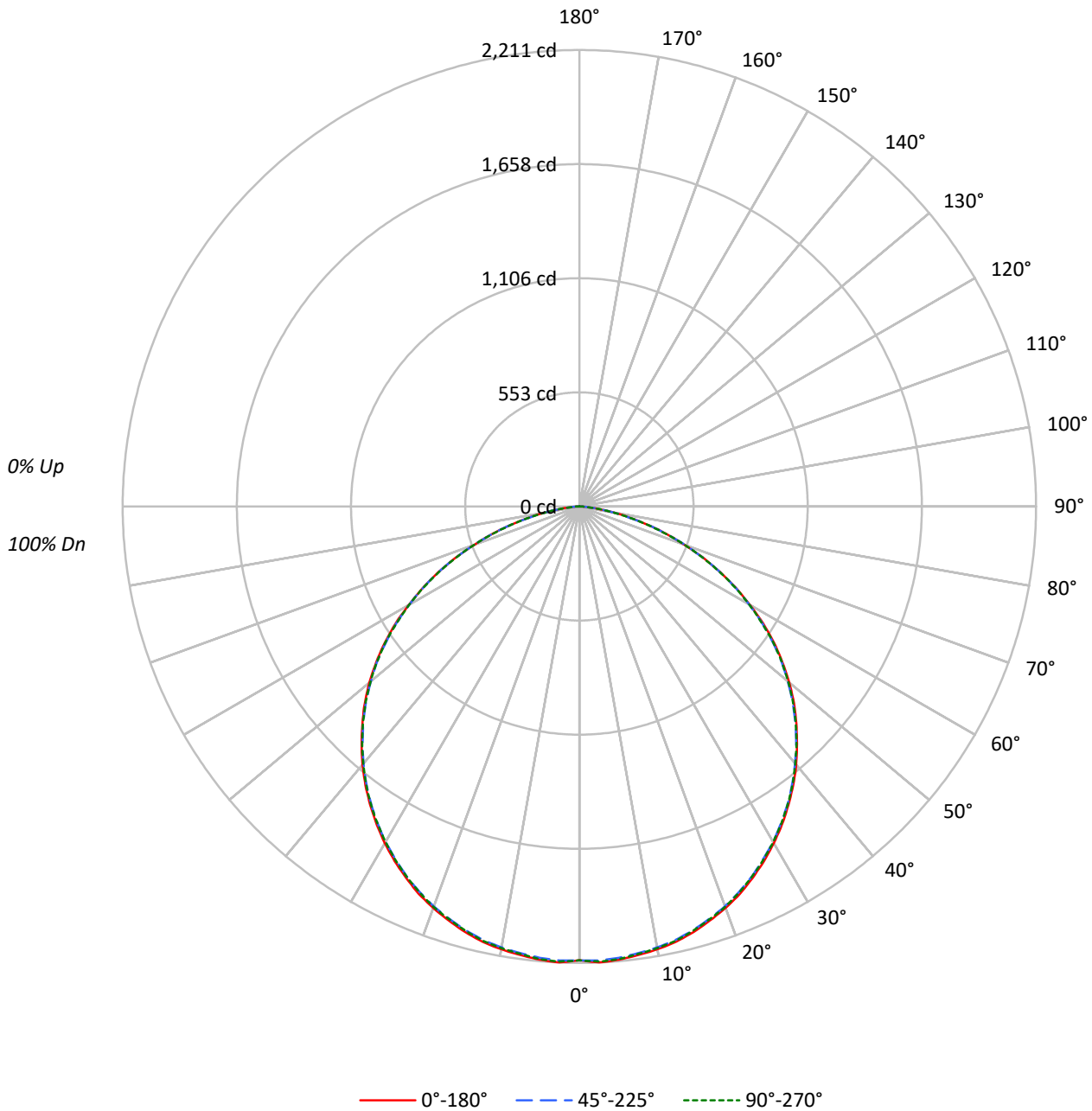
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6148.1 lumens
Efficiency: N/A
Efficacy: 407.2 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): 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										
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																				
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°	5916	5916	5916
5°	5953	5928	5946
10°	5952	5926	5937
15°	5947	5920	5928
20°	5926	5903	5911
25°	5895	5870	5874
30°	5852	5827	5831
35°	5799	5777	5781
40°	5739	5710	5715
45°	5654	5628	5638
50°	5554	5514	5526
55°	5396	5352	5370
60°	5131	5109	5109
65°	4790	4781	4764
70°	4242	4263	4253
75°	3572	3543	3515
80°	2568	2526	2504
85°	1343	1343	1300

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5654 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.2	3.4
10°-20°	598.7	9.7
20°-30°	909.8	14.8
30°-40°	1099.6	17.9
40°-50°	1141.4	18.6
50°-60°	1020.4	16.6
60°-70°	741.9	12.1
70°-80°	364.8	5.9
80°-90°	63.3	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°	1716.6	27.9
0°-40°	2816.3	45.8
0°-60°	4978.1	81.0
0°-90°	6148.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6148.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2198	2198	2198	2198	2198	
5°	2204	2178	2194	2186	2201	209
15°	2135	2110	2125	2120	2128	602
25°	1985	1964	1977	1973	1978	915
35°	1765	1753	1758	1760	1760	1104
45°	1486	1479	1479	1482	1482	1146
55°	1150	1143	1141	1143	1145	1025
65°	752	755	751	751	748	742
75°	344	346	341	342	338	365
85°	44	45	44	44	42	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2198.5	2198.5	2198.5	2198.5	2198.5
2.5°	2210.7	2184.9	2201.2	2191.7	2206.6
5°	2203.9	2178.1	2194.4	2186.2	2201.2
7.5°	2191.7	2165.9	2182.2	2174.0	2186.2
10°	2178.1	2150.9	2168.6	2160.4	2172.7
12.5°	2160.4	2134.6	2150.9	2144.2	2155.0
15°	2134.6	2110.2	2125.1	2119.7	2127.9
17.5°	2103.4	2079.0	2093.9	2089.8	2096.6
20°	2069.5	2046.4	2061.3	2057.2	2064.0
22.5°	2031.4	2007.0	2020.6	2017.9	2023.3
25°	1985.3	1963.6	1977.1	1973.1	1978.5
27.5°	1936.4	1916.0	1926.9	1926.9	1929.6
30°	1883.4	1864.4	1875.3	1875.3	1876.6
32.5°	1826.4	1811.5	1818.3	1819.6	1819.6
35°	1765.3	1753.1	1758.5	1759.9	1759.9
37.5°	1701.5	1689.3	1693.3	1696.0	1696.0
40°	1633.6	1622.7	1625.4	1628.1	1626.8
42.5°	1560.2	1552.1	1553.5	1556.2	1556.2
45°	1485.6	1478.8	1478.8	1481.5	1481.5
47.5°	1409.5	1402.7	1400.0	1402.7	1402.7
50°	1326.7	1319.9	1317.2	1319.9	1319.9
52.5°	1239.8	1233.0	1233.0	1233.0	1234.3
55°	1150.2	1143.4	1140.7	1143.4	1144.7
57.5°	1055.1	1052.4	1048.3	1049.7	1045.6
60°	953.3	953.3	949.2	951.9	949.2
62.5°	854.1	856.8	852.8	852.8	850.1
65°	752.3	755.0	750.9	750.9	748.2
67.5°	647.7	651.8	646.4	646.4	643.7
70°	539.1	547.2	541.8	543.2	540.5
72.5°	441.3	445.4	440.0	440.0	437.2
75°	343.6	346.3	340.8	342.2	338.1
77.5°	247.1	251.2	245.8	247.1	245.8
80°	165.7	167.0	163.0	164.3	161.6
82.5°	96.4	97.8	96.4	95.1	93.7
85°	43.5	44.8	43.5	43.5	42.1
87.5°	10.9	10.9	10.9	10.9	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)