

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: P973622

Luminaire Tested: FLR2-22-25-L840-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973622
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: FLR2-22-25-L840-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

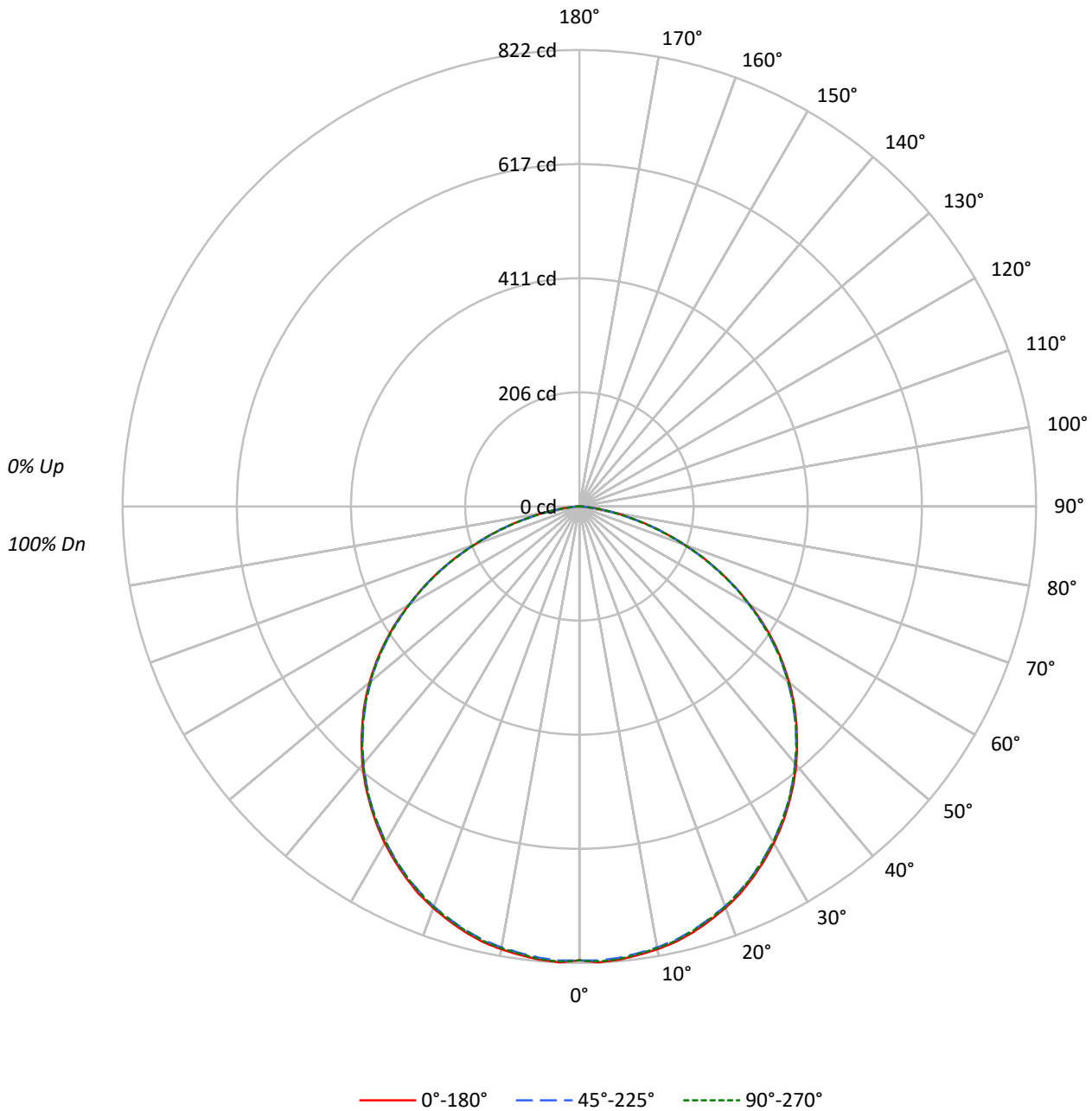
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2285.5 lumens
Efficiency: N/A
Efficacy: 120.9 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): 18.9
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

TEST NUMBER: P973622
CATALOG NUMBER: FLR2-22-25-L840-CP250

Luminous Intensity Polar Plot





TEST NUMBER: P973622
 CATALOG NUMBER: FLR2-22-25-L840-CP250

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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						100													
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85													
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71						71													
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60						60													
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51													
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44													
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39													
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34						34													
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30						30													
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27						27													
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25						25													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2199	2199	2199
5°	2213	2204	2210
10°	2212	2203	2207
15°	2211	2201	2204
20°	2203	2194	2197
25°	2191	2182	2184
30°	2176	2166	2168
35°	2156	2147	2149
40°	2133	2122	2125
45°	2102	2092	2096
50°	2065	2050	2054
55°	2006	1989	1996
60°	1907	1899	1899
65°	1781	1778	1771
70°	1577	1585	1581
75°	1328	1317	1307
80°	955	939	931
85°	500	500	482

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2102 cd/sqm



TEST NUMBER: P973622
 CATALOG NUMBER: FLR2-22-25-L840-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	3.4
10°-20°	222.6	9.7
20°-30°	338.2	14.8
30°-40°	408.8	17.9
40°-50°	424.3	18.6
50°-60°	379.3	16.6
60°-70°	275.8	12.1
70°-80°	135.6	5.9
80°-90°	23.5	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°	638.1	27.9
0°-40°	1046.9	45.8
0°-60°	1850.6	81.0
0°-90°	2285.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2285.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	819	810	816	813	818	78
15°	794	784	790	788	791	224
25°	738	730	735	734	736	340
35°	656	652	654	654	654	411
45°	552	550	550	551	551	426
55°	428	425	424	425	426	381
65°	280	281	279	279	278	276
75°	128	129	127	127	126	136
85°	16	17	16	16	16	24
90°	0	0	0	0	0	



TEST NUMBER: P973622
 CATALOG NUMBER: FLR2-22-25-L840-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	817.3	817.3	817.3	817.3	817.3
2.5°	821.8	812.2	818.3	814.8	820.3
5°	819.3	809.7	815.8	812.7	818.3
7.5°	814.8	805.2	811.2	808.2	812.7
10°	809.7	799.6	806.2	803.1	807.7
12.5°	803.1	793.5	799.6	797.1	801.1
15°	793.5	784.5	790.0	788.0	791.0
17.5°	781.9	772.9	778.4	776.9	779.4
20°	769.3	760.7	766.3	764.8	767.3
22.5°	755.2	746.1	751.1	750.1	752.2
25°	738.0	729.9	735.0	733.5	735.5
27.5°	719.8	712.3	716.3	716.3	717.3
30°	700.2	693.1	697.1	697.1	697.6
32.5°	679.0	673.4	675.9	676.4	676.4
35°	656.2	651.7	653.7	654.2	654.2
37.5°	632.5	628.0	629.5	630.5	630.5
40°	607.3	603.2	604.2	605.3	604.8
42.5°	580.0	577.0	577.5	578.5	578.5
45°	552.3	549.7	549.7	550.7	550.7
47.5°	524.0	521.5	520.5	521.5	521.5
50°	493.2	490.7	489.7	490.7	490.7
52.5°	460.9	458.4	458.4	458.4	458.9
55°	427.6	425.0	424.0	425.0	425.5
57.5°	392.2	391.2	389.7	390.2	388.7
60°	354.4	354.4	352.9	353.9	352.9
62.5°	317.5	318.5	317.0	317.0	316.0
65°	279.7	280.7	279.2	279.2	278.1
67.5°	240.8	242.3	240.3	240.3	239.3
70°	200.4	203.4	201.4	201.9	200.9
72.5°	164.1	165.6	163.6	163.6	162.5
75°	127.7	128.7	126.7	127.2	125.7
77.5°	91.9	93.4	91.4	91.9	91.4
80°	61.6	62.1	60.6	61.1	60.1
82.5°	35.8	36.3	35.8	35.3	34.8
85°	16.2	16.7	16.2	16.2	15.6
87.5°	4.0	4.0	4.0	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)