

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: P974354

Luminaire Tested: FLR2-24-30-L940-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-30-L940-CP187
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L940-CP187
Ballast/Driver: -

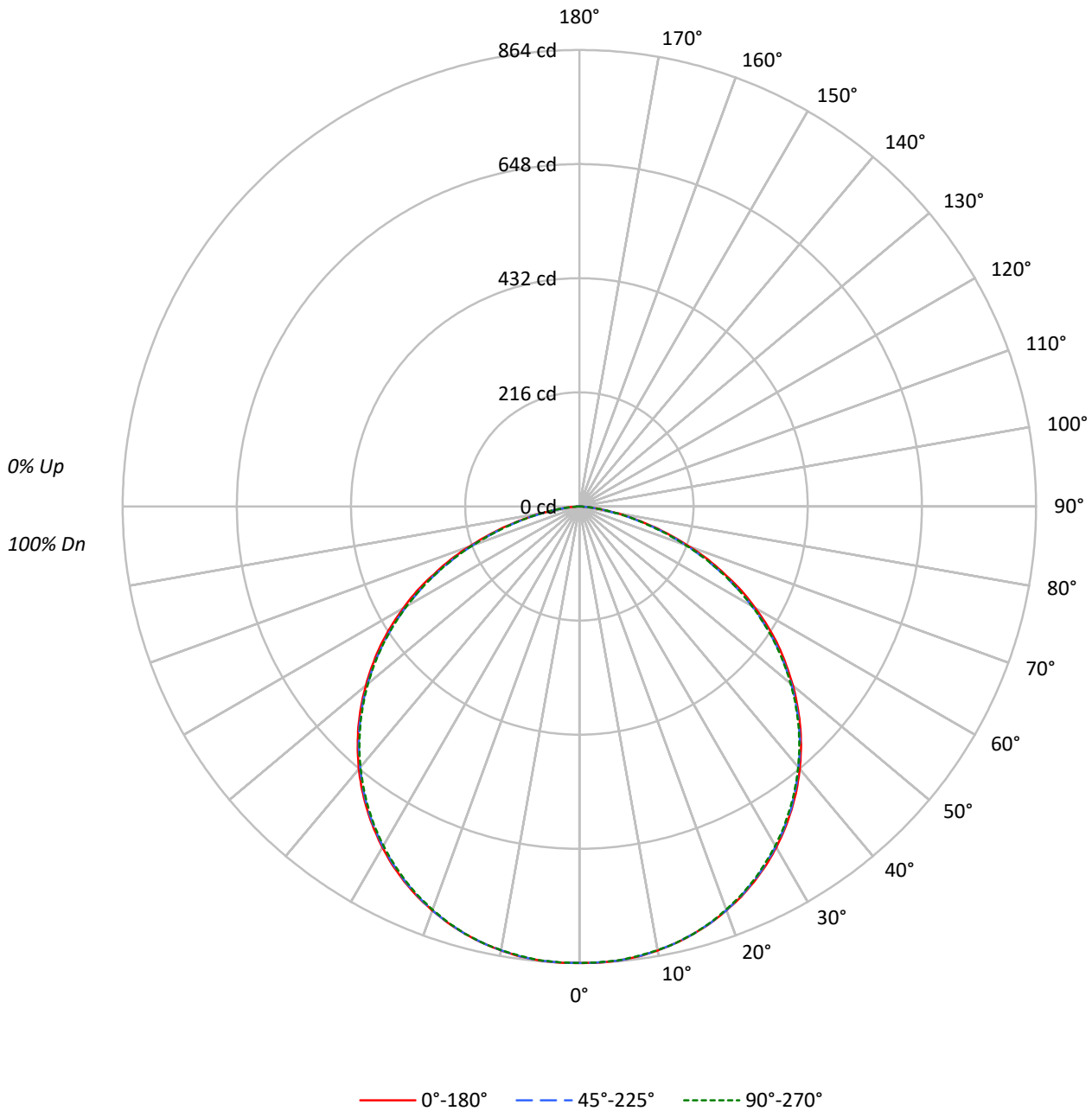
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2442.6 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.7
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					100															
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85					85															
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44					44															
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38					38															
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34															
8	61	47	39	33	59	47	38	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	39	33	29	27					27															
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1163	1163	1163
5°	1165	1165	1164
10°	1166	1166	1165
15°	1166	1166	1166
20°	1165	1165	1163
25°	1163	1161	1159
30°	1158	1154	1152
35°	1150	1147	1143
40°	1140	1133	1131
45°	1125	1119	1115
50°	1104	1096	1092
55°	1078	1063	1061
60°	1033	1015	1015
65°	967	944	947
70°	870	843	841
75°	730	701	698
80°	533	507	528
85°	301	278	283

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1125 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	3.4
10°-20°	236.3	9.7
20°-30°	360.3	14.8
30°-40°	436.6	17.9
40°-50°	453.5	18.6
50°-60°	405.7	16.6
60°-70°	295.7	12.1
70°-80°	146.4	6.0
80°-90°	26.2	1.1
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°	678.7	27.8
0°-40°	1115.3	45.7
0°-60°	1974.4	80.8
0°-90°	2442.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2442.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	864	864	864	864	864	
5°	863	863	863	863	862	82
15°	837	837	837	838	837	236
25°	783	782	782	781	780	361
35°	700	699	698	697	696	438
45°	591	590	588	587	586	456
55°	460	456	453	453	452	409
65°	304	301	296	298	297	301
75°	140	138	135	137	134	150
85°	20	18	18	18	18	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	864.2	864.2	864.2	864.2	864.2
2.5°	864.2	863.9	863.9	864.2	863.6
5°	862.7	863.0	862.7	862.7	862.1
7.5°	859.3	859.0	858.7	859.0	858.0
10°	853.4	853.4	853.1	853.4	852.8
12.5°	846.3	846.3	846.3	846.6	846.3
15°	837.3	837.0	837.0	837.6	837.0
17.5°	826.7	826.4	826.4	826.1	825.5
20°	813.7	813.7	813.4	813.1	812.1
22.5°	799.7	799.4	798.5	798.5	797.3
25°	783.3	782.4	781.8	781.4	780.5
27.5°	765.3	764.1	763.2	762.5	761.6
30°	745.2	743.9	743.0	742.1	741.4
32.5°	723.5	722.8	721.3	721.0	719.7
35°	700.2	699.3	698.3	697.1	695.9
37.5°	675.4	674.5	672.3	671.7	670.7
40°	649.0	647.8	645.0	645.0	644.1
42.5°	620.8	619.6	617.7	616.5	615.9
45°	591.4	590.1	587.9	586.7	586.1
47.5°	560.0	559.1	556.6	555.7	554.8
50°	527.5	526.2	523.4	522.8	521.9
52.5°	493.4	492.7	489.0	488.7	487.8
55°	459.6	456.2	453.1	453.1	452.4
57.5°	422.4	419.9	415.8	415.8	415.2
60°	383.9	381.7	377.1	377.7	377.1
62.5°	346.4	341.7	337.4	339.2	337.7
65°	303.6	301.1	296.5	297.7	297.4
67.5°	264.5	259.9	255.5	258.0	256.8
70°	221.1	218.6	214.3	216.8	213.7
72.5°	180.2	178.0	173.7	176.4	173.3
75°	140.5	138.3	134.9	137.4	134.3
77.5°	103.0	101.4	98.3	100.8	101.4
80°	68.8	67.0	65.4	67.6	68.2
82.5°	40.3	39.1	38.5	38.8	40.3
85°	19.5	18.0	18.0	18.3	18.3
87.5°	5.3	4.7	5.3	5.6	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)