

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: P974370

Luminaire Tested: FLR2-24-30-L940-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974370
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-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L940-CP375
Ballast/Driver: -

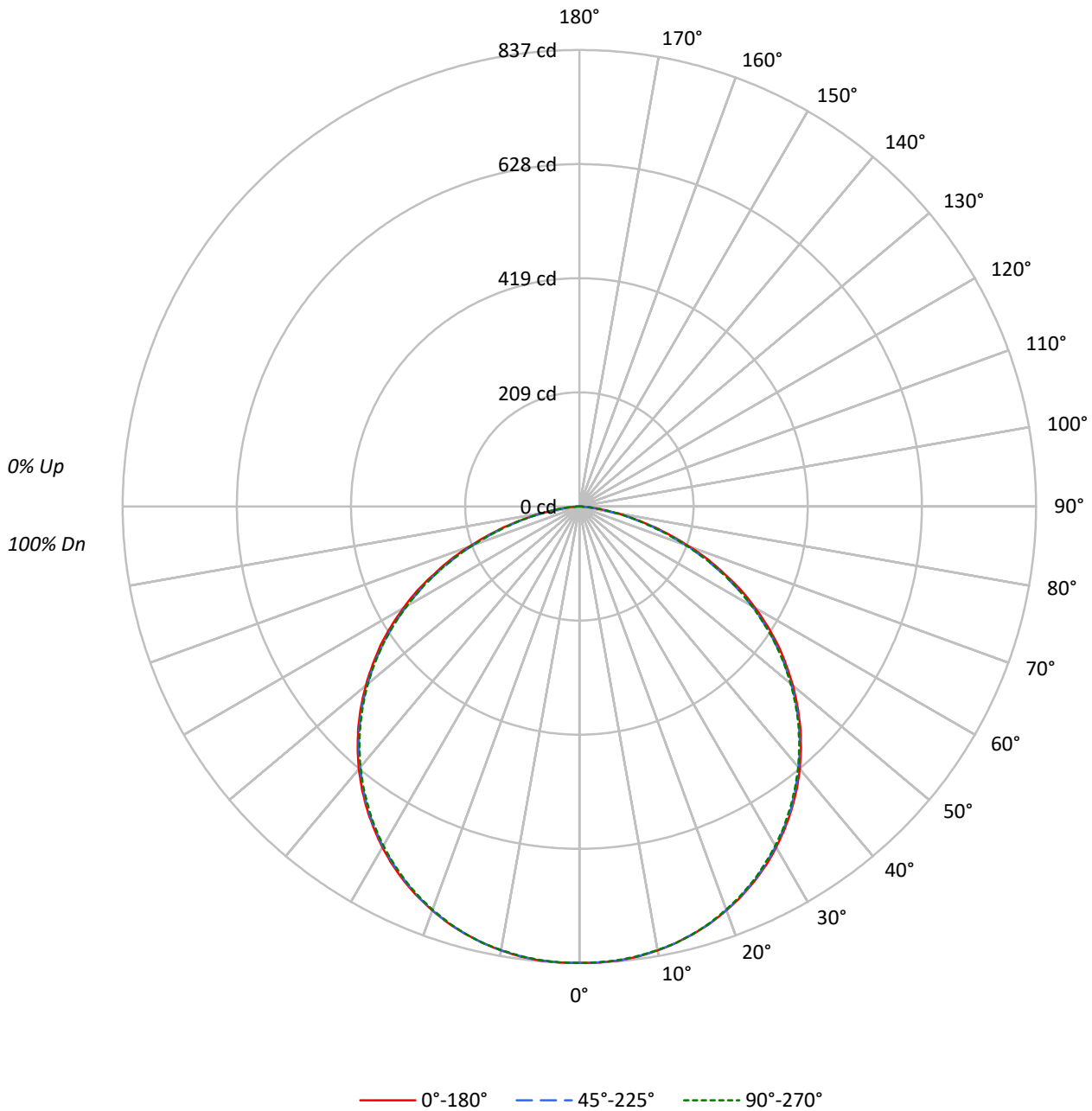
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2365.9 lumens
Efficiency: N/A
Efficacy: 99.8 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°	1126	1126	1126
5°	1129	1129	1128
10°	1129	1129	1129
15°	1130	1129	1129
20°	1129	1128	1126
25°	1126	1124	1122
30°	1121	1118	1116
35°	1114	1111	1107
40°	1104	1097	1096
45°	1090	1084	1080
50°	1069	1061	1058
55°	1044	1029	1028
60°	1001	983	983
65°	936	914	917
70°	843	817	814
75°	708	679	676
80°	517	491	512
85°	292	269	273

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1090 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	3.4
10°-20°	228.9	9.7
20°-30°	349.0	14.8
30°-40°	422.9	17.9
40°-50°	439.2	18.6
50°-60°	392.9	16.6
60°-70°	286.4	12.1
70°-80°	141.8	6.0
80°-90°	25.3	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°	657.4	27.8
0°-40°	1080.2	45.7
0°-60°	1912.4	80.8
0°-90°	2365.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2365.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	837	837	837	837	837	
5°	836	836	836	836	835	79
15°	811	811	811	811	811	229
25°	759	758	757	757	756	350
35°	678	677	676	675	674	424
45°	573	572	570	568	568	441
55°	445	442	439	439	438	397
65°	294	292	287	288	288	292
75°	136	134	131	133	130	145
85°	19	17	17	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	837.1	837.1	837.1	837.1	837.1
2.5°	837.1	836.8	836.8	837.1	836.5
5°	835.6	835.9	835.6	835.6	835.0
7.5°	832.3	832.0	831.7	832.0	831.1
10°	826.6	826.6	826.3	826.6	826.0
12.5°	819.7	819.7	819.7	820.0	819.7
15°	811.0	810.7	810.7	811.3	810.7
17.5°	800.8	800.5	800.5	800.2	799.6
20°	788.2	788.2	787.9	787.6	786.7
22.5°	774.6	774.3	773.4	773.4	772.2
25°	758.7	757.8	757.2	756.9	756.0
27.5°	741.3	740.1	739.2	738.6	737.7
30°	721.8	720.6	719.7	718.8	718.2
32.5°	700.7	700.1	698.6	698.3	697.1
35°	678.2	677.3	676.4	675.2	674.0
37.5°	654.2	653.3	651.2	650.6	649.7
40°	628.7	627.5	624.8	624.8	623.9
42.5°	601.3	600.1	598.3	597.1	596.5
45°	572.8	571.6	569.5	568.3	567.7
47.5°	542.5	541.6	539.2	538.3	537.4
50°	510.9	509.7	507.0	506.4	505.5
52.5°	477.9	477.3	473.7	473.4	472.5
55°	445.1	441.8	438.8	438.8	438.2
57.5°	409.1	406.7	402.8	402.8	402.2
60°	371.9	369.7	365.2	365.8	365.2
62.5°	335.5	331.0	326.8	328.6	327.1
65°	294.1	291.7	287.1	288.3	288.0
67.5°	256.2	251.7	247.5	249.9	248.7
70°	214.2	211.8	207.6	210.0	207.0
72.5°	174.5	172.4	168.2	170.9	167.9
75°	136.1	134.0	130.7	133.1	130.1
77.5°	99.7	98.2	95.2	97.6	98.2
80°	66.7	64.9	63.4	65.5	66.1
82.5°	39.0	37.8	37.2	37.5	39.0
85°	18.9	17.4	17.4	17.7	17.7
87.5°	5.1	4.5	5.1	5.4	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)