

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: P974314

Luminaire Tested: FLR2-24-30-L840-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974314  
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-L840-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-30-L840-CP375  
Ballast/Driver: -

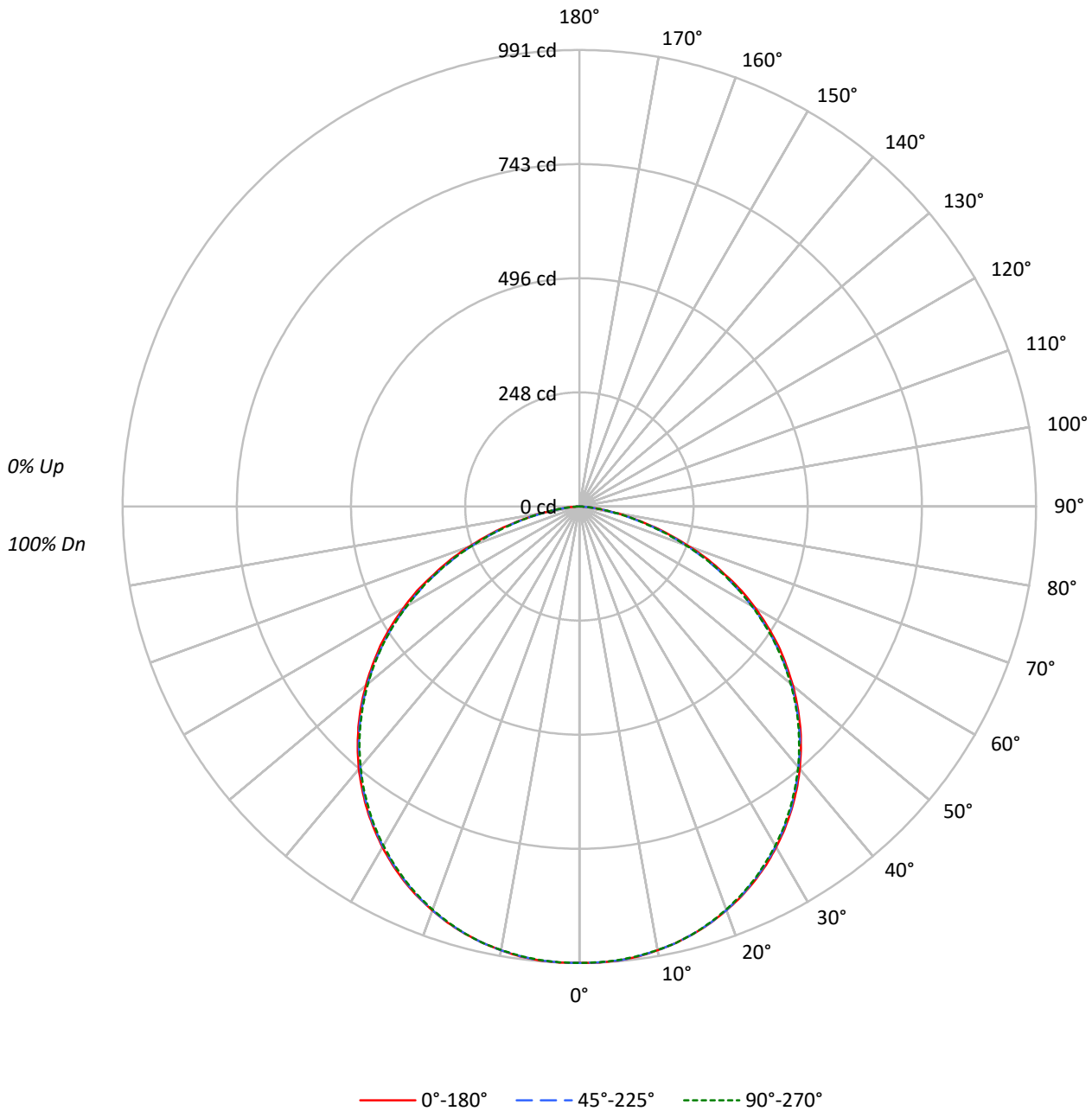
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2801.0 lumens  
Efficiency: N/A  
Efficacy: 118.2 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°	1334	1334	1334
5°	1336	1336	1335
10°	1337	1337	1336
15°	1337	1337	1337
20°	1336	1335	1333
25°	1334	1331	1329
30°	1328	1324	1321
35°	1319	1315	1311
40°	1307	1299	1297
45°	1290	1283	1279
50°	1266	1257	1253
55°	1236	1219	1217
60°	1185	1164	1164
65°	1108	1082	1086
70°	997	967	964
75°	837	804	801
80°	611	581	606
85°	346	318	324

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1290 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.1	3.4
10°-20°	271.0	9.7
20°-30°	413.2	14.8
30°-40°	500.6	17.9
40°-50°	520.0	18.6
50°-60°	465.2	16.6
60°-70°	339.0	12.1
70°-80°	167.9	6.0
80°-90°	30.0	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°	778.3	27.8
0°-40°	1278.9	45.7
0°-60°	2264.1	80.8
0°-90°	2801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2801.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	991	991	991	991	991	
5°	989	990	989	989	989	94
15°	960	960	960	960	960	271
25°	898	897	896	896	895	414
35°	803	802	801	799	798	502
45°	678	677	674	673	672	523
55°	527	523	520	520	519	470
65°	348	345	340	341	341	345
75°	161	159	155	158	154	172
85°	22	21	21	21	21	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	991.1	991.1	991.1	991.1	991.1
2.5°	991.1	990.7	990.7	991.1	990.4
5°	989.3	989.6	989.3	989.3	988.6
7.5°	985.4	985.0	984.7	985.0	984.0
10°	978.6	978.6	978.3	978.6	977.9
12.5°	970.4	970.4	970.4	970.8	970.4
15°	960.1	959.8	959.8	960.5	959.8
17.5°	948.0	947.7	947.7	947.3	946.6
20°	933.1	933.1	932.7	932.4	931.3
22.5°	917.1	916.7	915.7	915.7	914.3
25°	898.3	897.2	896.5	896.1	895.1
27.5°	877.6	876.2	875.1	874.4	873.4
30°	854.5	853.1	852.0	851.0	850.2
32.5°	829.6	828.9	827.1	826.8	825.4
35°	803.0	801.9	800.8	799.4	798.0
37.5°	774.5	773.4	770.9	770.2	769.2
40°	744.3	742.9	739.7	739.7	738.6
42.5°	711.9	710.5	708.4	706.9	706.2
45°	678.1	676.7	674.2	672.8	672.1
47.5°	642.2	641.2	638.3	637.2	636.2
50°	604.9	603.5	600.3	599.5	598.5
52.5°	565.8	565.1	560.8	560.4	559.4
55°	527.0	523.1	519.5	519.5	518.8
57.5°	484.3	481.5	476.9	476.9	476.2
60°	440.2	437.7	432.4	433.1	432.4
62.5°	397.2	391.9	386.9	389.0	387.3
65°	348.1	345.3	340.0	341.4	341.0
67.5°	303.3	298.0	293.0	295.9	294.4
70°	253.5	250.7	245.7	248.6	245.0
72.5°	206.6	204.1	199.1	202.3	198.8
75°	161.1	158.6	154.7	157.5	154.0
77.5°	118.1	116.3	112.7	115.6	116.3
80°	78.9	76.8	75.0	77.5	78.2
82.5°	46.2	44.8	44.1	44.5	46.2
85°	22.4	20.6	20.6	21.0	21.0
87.5°	6.0	5.3	6.0	6.4	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)