

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: P974290

Luminaire Tested: FLR2-24-30-L840-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974290
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-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L840-CP125
Ballast/Driver: -

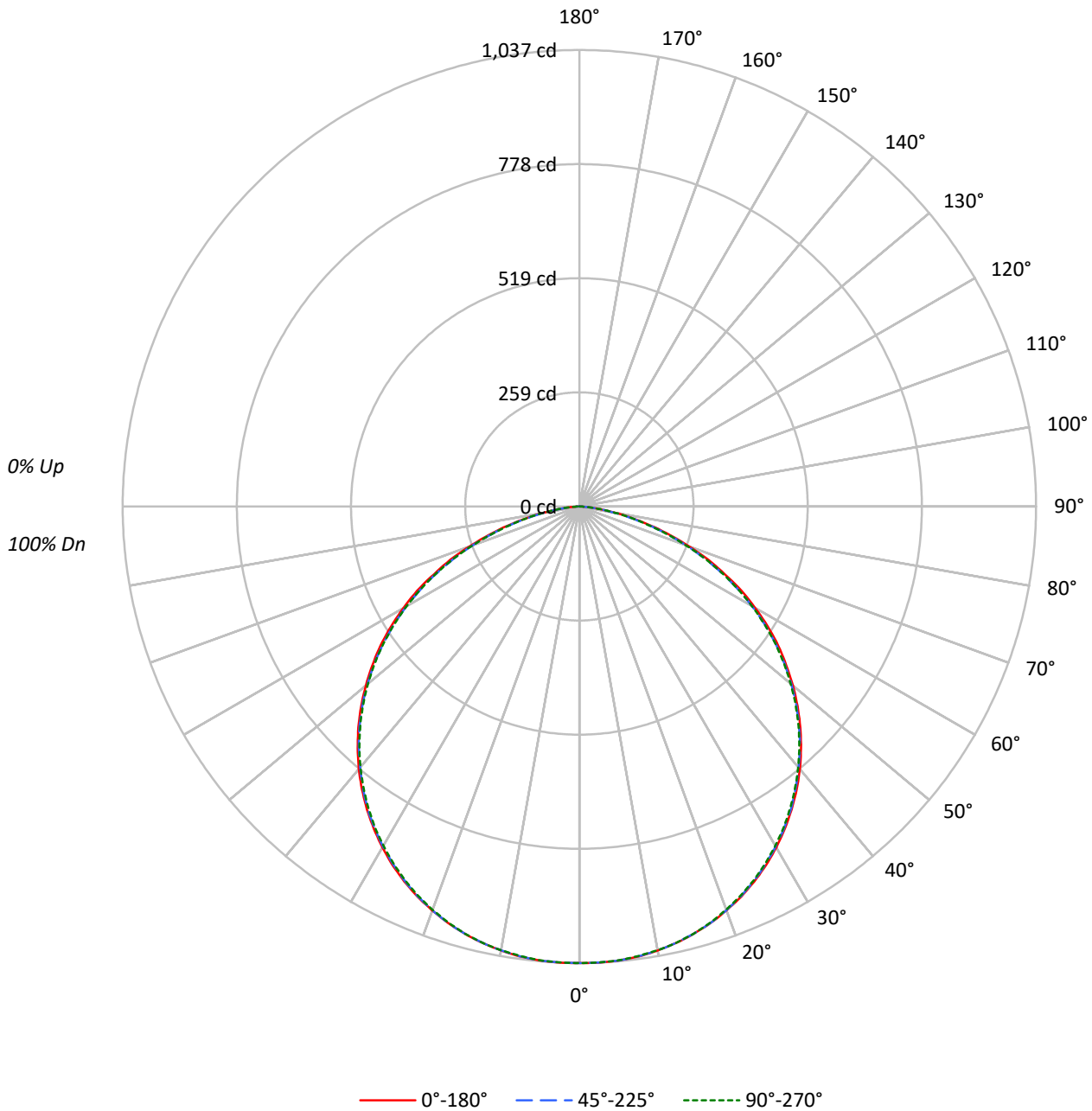
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2931.9 lumens
Efficiency: N/A
Efficacy: 123.7 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°	1396	1396	1396
5°	1399	1399	1398
10°	1399	1399	1398
15°	1400	1399	1399
20°	1398	1398	1396
25°	1396	1393	1391
30°	1390	1386	1383
35°	1381	1377	1372
40°	1368	1360	1358
45°	1351	1343	1339
50°	1325	1315	1311
55°	1294	1276	1274
60°	1240	1218	1218
65°	1160	1133	1137
70°	1044	1012	1009
75°	876	842	838
80°	640	608	635
85°	361	333	340

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1351 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	3.4
10°-20°	283.7	9.7
20°-30°	432.5	14.8
30°-40°	524.0	17.9
40°-50°	544.3	18.6
50°-60°	486.9	16.6
60°-70°	354.9	12.1
70°-80°	175.8	6.0
80°-90°	31.4	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°	814.6	27.8
0°-40°	1338.6	45.7
0°-60°	2369.9	80.8
0°-90°	2931.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2931.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1037	1037	1037	1037	1037	
5°	1036	1036	1036	1036	1035	98
15°	1005	1005	1005	1005	1005	284
25°	940	939	938	938	937	433
35°	840	839	838	837	835	526
45°	710	708	706	704	704	547
55°	552	548	544	544	543	491
65°	364	361	356	357	357	361
75°	169	166	162	165	161	180
85°	23	22	22	22	22	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1037.4	1037.4	1037.4	1037.4	1037.4
2.5°	1037.4	1037.0	1037.0	1037.4	1036.6
5°	1035.5	1035.9	1035.5	1035.5	1034.8
7.5°	1031.4	1031.0	1030.7	1031.0	1029.9
10°	1024.3	1024.3	1024.0	1024.3	1023.6
12.5°	1015.8	1015.8	1015.8	1016.2	1015.8
15°	1005.0	1004.6	1004.6	1005.4	1004.6
17.5°	992.3	992.0	992.0	991.6	990.8
20°	976.7	976.7	976.3	976.0	974.8
22.5°	959.9	959.6	958.5	958.5	957.0
25°	940.2	939.1	938.4	938.0	936.9
27.5°	918.6	917.1	916.0	915.3	914.2
30°	894.4	892.9	891.8	890.7	890.0
32.5°	868.4	867.6	865.8	865.4	863.9
35°	840.5	839.3	838.2	836.7	835.3
37.5°	810.7	809.6	807.0	806.2	805.1
40°	779.1	777.6	774.2	774.2	773.1
42.5°	745.2	743.7	741.5	740.0	739.2
45°	709.8	708.3	705.7	704.2	703.5
47.5°	672.2	671.1	668.1	667.0	665.9
50°	633.1	631.7	628.3	627.6	626.4
52.5°	592.2	591.5	587.0	586.6	585.5
55°	551.6	547.5	543.8	543.8	543.1
57.5°	507.0	504.0	499.1	499.1	498.4
60°	460.8	458.2	452.6	453.4	452.6
62.5°	415.8	410.2	405.0	407.2	405.3
65°	364.4	361.4	355.8	357.3	357.0
67.5°	317.5	311.9	306.7	309.7	308.2
70°	265.4	262.4	257.2	260.2	256.5
72.5°	216.3	213.7	208.4	211.8	208.1
75°	168.6	166.0	161.9	164.9	161.2
77.5°	123.6	121.7	118.0	121.0	121.7
80°	82.6	80.4	78.5	81.1	81.9
82.5°	48.4	46.9	46.2	46.5	48.4
85°	23.4	21.6	21.6	22.0	22.0
87.5°	6.3	5.6	6.3	6.7	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)