

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: P974202

Luminaire Tested: FLR2-24-30-L835-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974202
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-L835-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L835-CP375
Ballast/Driver: -

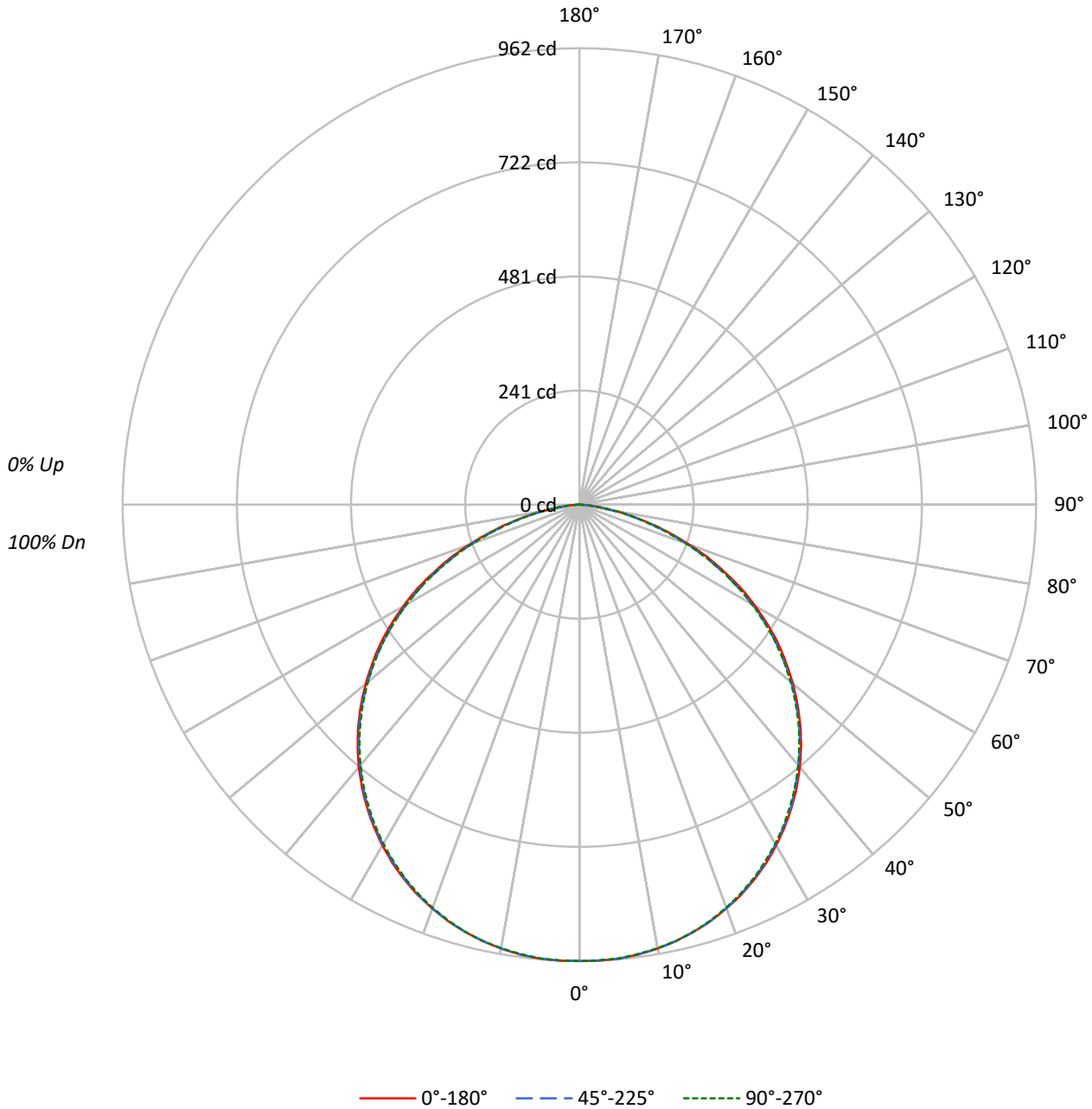
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2719.5 lumens
Efficiency: N/A
Efficacy: 114.7 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				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1295	1295	1295
5°	1297	1297	1296
10°	1298	1298	1297
15°	1299	1298	1298
20°	1297	1297	1295
25°	1295	1292	1290
30°	1289	1285	1283
35°	1281	1277	1272
40°	1269	1261	1260
45°	1253	1246	1242
50°	1229	1220	1216
55°	1200	1183	1182
60°	1150	1130	1130
65°	1076	1051	1054
70°	969	939	936
75°	813	781	777
80°	594	564	589
85°	337	309	315

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1253 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	3.4
10°-20°	263.1	9.7
20°-30°	401.2	14.8
30°-40°	486.0	17.9
40°-50°	504.9	18.6
50°-60°	451.7	16.6
60°-70°	329.2	12.1
70°-80°	163.0	6.0
80°-90°	29.1	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°	755.6	27.8
0°-40°	1241.6	45.7
0°-60°	2198.2	80.8
0°-90°	2719.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2719.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	962	962	962	962	962	
5°	960	961	960	960	960	91
15°	932	932	932	932	932	263
25°	872	871	870	870	869	402
35°	780	778	778	776	775	488
45°	658	657	655	653	652	507
55°	512	508	504	504	504	456
65°	338	335	330	331	331	335
75°	156	154	150	153	150	167
85°	22	20	20	20	20	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	962.2	962.2	962.2	962.2	962.2
2.5°	962.2	961.9	961.9	962.2	961.5
5°	960.5	960.8	960.5	960.5	959.8
7.5°	956.7	956.3	956.0	956.3	955.3
10°	950.1	950.1	949.8	950.1	949.4
12.5°	942.2	942.2	942.2	942.5	942.2
15°	932.2	931.8	931.8	932.5	931.8
17.5°	920.4	920.1	920.1	919.7	919.0
20°	905.9	905.9	905.6	905.2	904.2
22.5°	890.4	890.0	889.0	889.0	887.6
25°	872.1	871.1	870.4	870.0	869.0
27.5°	852.1	850.7	849.7	849.0	847.9
30°	829.6	828.2	827.2	826.2	825.5
32.5°	805.5	804.8	803.0	802.7	801.3
35°	779.6	778.5	777.5	776.1	774.7
37.5°	751.9	750.9	748.5	747.8	746.8
40°	722.6	721.2	718.1	718.1	717.1
42.5°	691.2	689.8	687.7	686.3	685.7
45°	658.4	657.0	654.6	653.2	652.5
47.5°	623.5	622.5	619.7	618.7	617.6
50°	587.3	585.9	582.8	582.1	581.0
52.5°	549.3	548.6	544.5	544.1	543.1
55°	511.7	507.9	504.4	504.4	503.7
57.5°	470.2	467.5	463.0	463.0	462.3
60°	427.4	425.0	419.8	420.5	419.8
62.5°	385.6	380.5	375.6	377.7	376.0
65°	338.0	335.2	330.1	331.4	331.1
67.5°	294.5	289.3	284.5	287.2	285.9
70°	246.2	243.4	238.6	241.3	237.9
72.5°	200.6	198.2	193.3	196.4	193.0
75°	156.4	154.0	150.2	152.9	149.5
77.5°	114.6	112.9	109.4	112.2	112.9
80°	76.6	74.6	72.8	75.3	76.0
82.5°	44.9	43.5	42.8	43.2	44.9
85°	21.8	20.0	20.0	20.4	20.4
87.5°	5.9	5.2	5.9	6.2	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)