

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: P974194

Luminaire Tested: FLR2-24-30-L835-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974194
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L835-CP250
Ballast/Driver: -

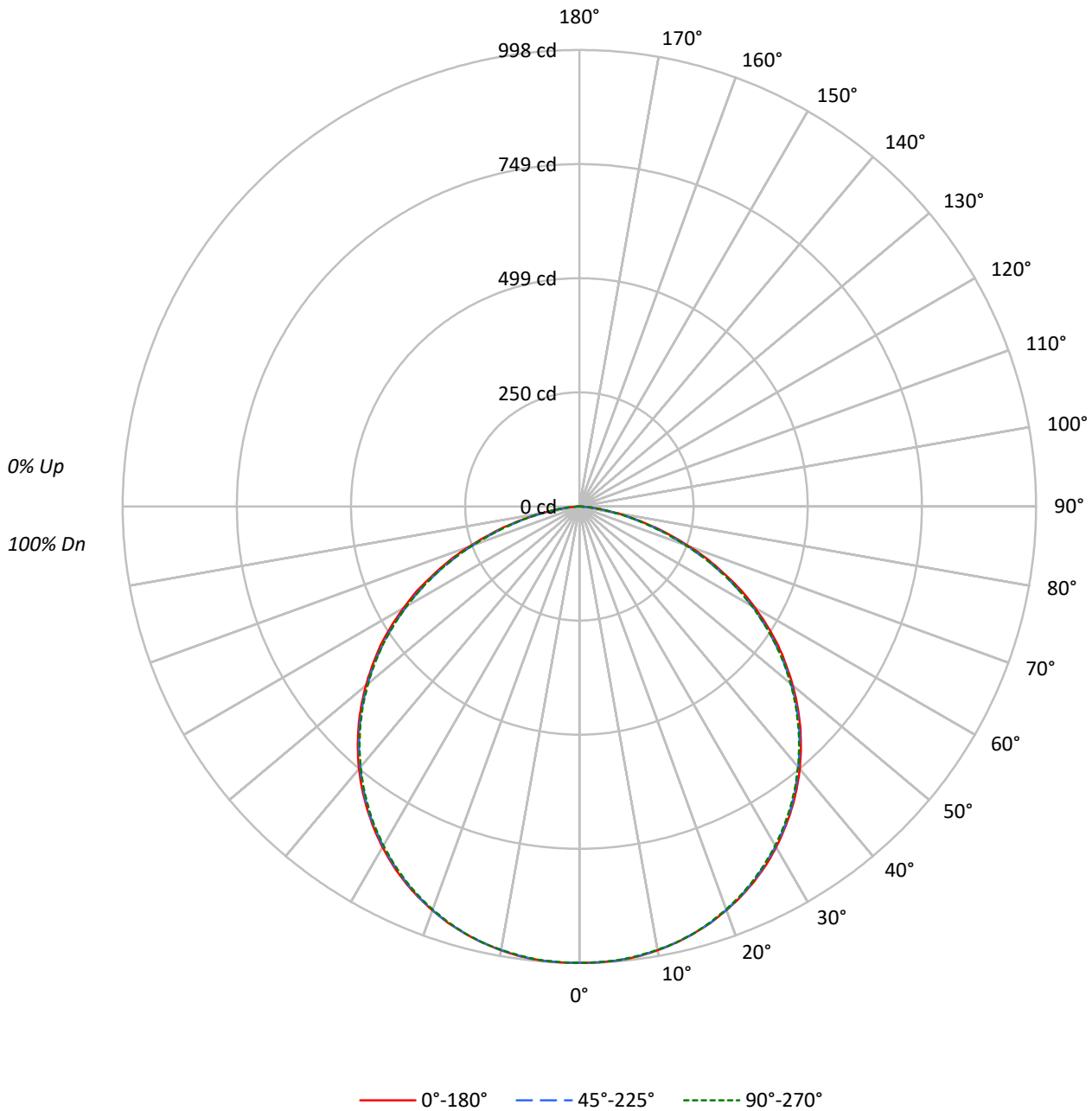
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2820.0 lumens
Efficiency: N/A
Efficacy: 119.0 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°	1343	1343	1343
5°	1345	1345	1344
10°	1346	1346	1345
15°	1346	1346	1346
20°	1345	1345	1342
25°	1343	1340	1338
30°	1337	1333	1330
35°	1328	1324	1320
40°	1316	1308	1306
45°	1299	1292	1287
50°	1275	1265	1261
55°	1245	1227	1225
60°	1193	1171	1171
65°	1116	1090	1093
70°	1004	973	971
75°	843	809	806
80°	616	585	611
85°	349	321	326

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1299 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	3.4
10°-20°	272.8	9.7
20°-30°	416.0	14.8
30°-40°	504.0	17.9
40°-50°	523.5	18.6
50°-60°	468.3	16.6
60°-70°	341.3	12.1
70°-80°	169.0	6.0
80°-90°	30.2	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°	783.6	27.8
0°-40°	1287.6	45.7
0°-60°	2279.4	80.8
0°-90°	2820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2820.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	998	998	998	998	998	
5°	996	996	996	996	995	95
15°	967	966	966	967	966	273
25°	904	903	902	902	901	417
35°	808	807	806	805	803	506
45°	683	681	679	677	677	526
55°	531	527	523	523	522	473
65°	350	348	342	344	343	347
75°	162	160	156	159	155	173
85°	23	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°	997.8	997.8	997.8	997.8	997.8
2.5°	997.8	997.4	997.4	997.8	997.1
5°	996.0	996.3	996.0	996.0	995.3
7.5°	992.1	991.7	991.3	991.7	990.6
10°	985.3	985.3	984.9	985.3	984.5
12.5°	977.0	977.0	977.0	977.4	977.0
15°	966.6	966.3	966.3	967.0	966.3
17.5°	954.5	954.1	954.1	953.7	953.0
20°	939.4	939.4	939.1	938.7	937.6
22.5°	923.3	923.0	921.9	921.9	920.5
25°	904.3	903.3	902.5	902.2	901.1
27.5°	883.6	882.1	881.1	880.4	879.3
30°	860.3	858.9	857.8	856.7	856.0
32.5°	835.2	834.5	832.7	832.4	830.9
35°	808.4	807.3	806.2	804.8	803.4
37.5°	779.8	778.7	776.2	775.5	774.4
40°	749.3	747.9	744.7	744.7	743.6
42.5°	716.7	715.3	713.2	711.7	711.0
45°	682.7	681.3	678.8	677.4	676.6
47.5°	646.6	645.5	642.6	641.6	640.5
50°	609.0	607.5	604.3	603.6	602.5
52.5°	569.6	568.9	564.6	564.2	563.2
55°	530.6	526.6	523.1	523.1	522.3
57.5°	487.6	484.7	480.1	480.1	479.4
60°	443.2	440.7	435.3	436.1	435.3
62.5°	399.9	394.5	389.5	391.7	389.9
65°	350.5	347.6	342.3	343.7	343.3
67.5°	305.4	300.0	295.0	297.9	296.4
70°	255.3	252.4	247.4	250.3	246.7
72.5°	208.0	205.5	200.5	203.7	200.1
75°	162.2	159.7	155.7	158.6	155.0
77.5°	118.9	117.1	113.5	116.4	117.1
80°	79.5	77.3	75.5	78.0	78.8
82.5°	46.5	45.1	44.4	44.8	46.5
85°	22.6	20.8	20.8	21.1	21.1
87.5°	6.1	5.4	6.1	6.4	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)