

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: P973519

Luminaire Tested: FLR2-22-35-L830-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-35-L830-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

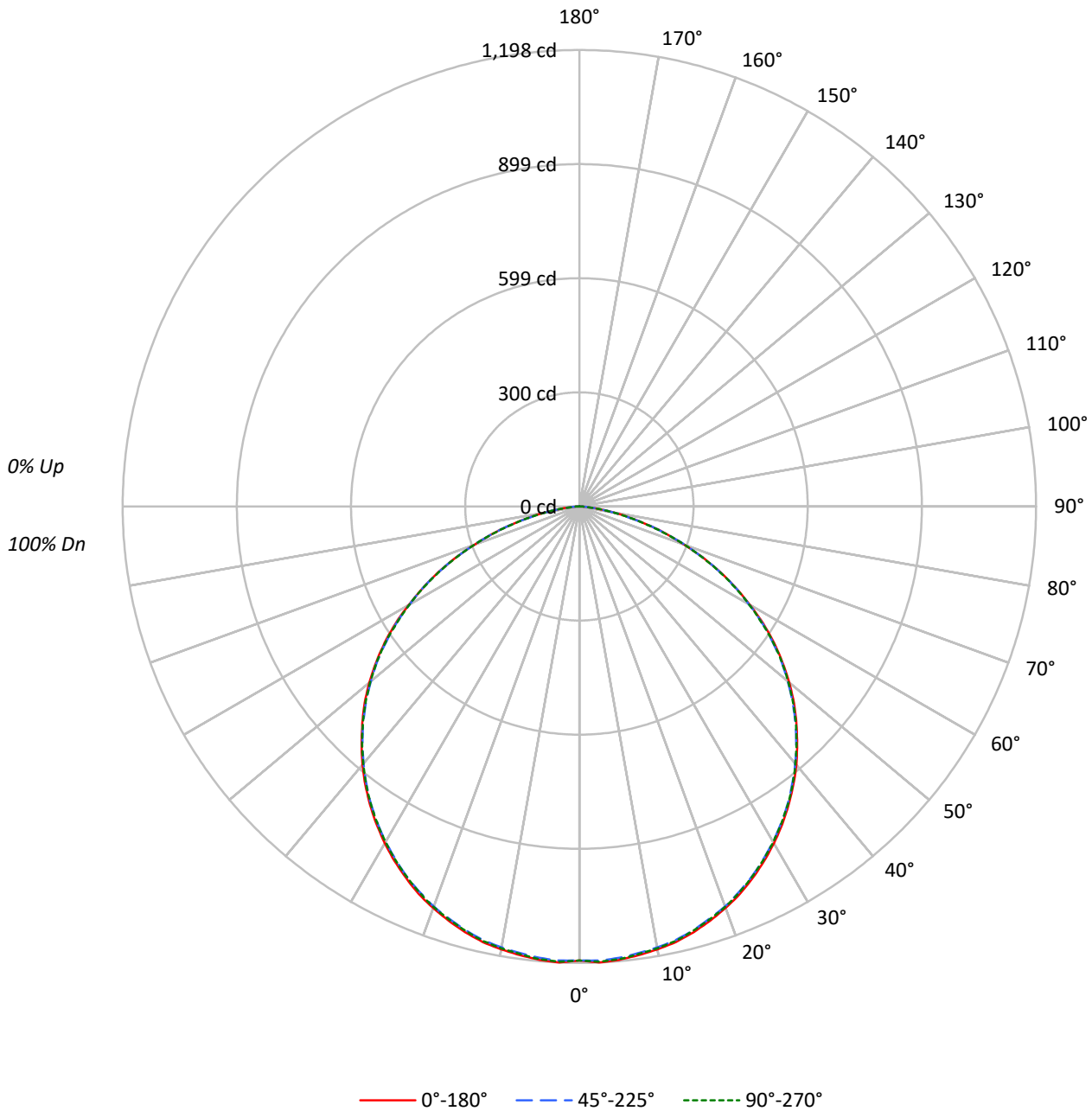
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3332.1 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 27.9
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

TEST NUMBER: P973519
CATALOG NUMBER: FLR2-22-35-L830-CA080

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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44														
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39														
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	39	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	40	34	29	27						27														
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3206	3206	3206
5°	3227	3213	3223
10°	3226	3211	3218
15°	3223	3209	3213
20°	3212	3199	3204
25°	3195	3181	3184
30°	3172	3158	3160
35°	3143	3131	3133
40°	3110	3094	3097
45°	3064	3050	3056
50°	3010	2989	2995
55°	2925	2900	2911
60°	2780	2768	2768
65°	2596	2592	2582
70°	2299	2310	2305
75°	1936	1920	1906
80°	1392	1368	1358
85°	729	729	704

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3064 cd/sqm



TEST NUMBER: P973519
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	3.4
10°-20°	324.5	9.7
20°-30°	493.1	14.8
30°-40°	596.0	17.9
40°-50°	618.6	18.6
50°-60°	553.0	16.6
60°-70°	402.1	12.1
70°-80°	197.7	5.9
80°-90°	34.3	1.0
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°	930.4	27.9
0°-40°	1526.3	45.8
0°-60°	2698.0	81.0
0°-90°	3332.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3332.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1192	1192	1192	1192	1192	
5°	1194	1180	1189	1185	1193	114
15°	1157	1144	1152	1149	1153	326
25°	1076	1064	1072	1069	1072	496
35°	957	950	953	954	954	599
45°	805	802	802	803	803	621
55°	623	620	618	620	620	556
65°	408	409	407	407	406	402
75°	186	188	185	186	183	198
85°	24	24	24	24	23	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1191.5	1191.5	1191.5	1191.5	1191.5
2.5°	1198.1	1184.2	1193.0	1187.8	1195.9
5°	1194.5	1180.5	1189.3	1184.9	1193.0
7.5°	1187.8	1173.8	1182.7	1178.3	1184.9
10°	1180.5	1165.8	1175.3	1170.9	1177.5
12.5°	1170.9	1156.9	1165.8	1162.1	1168.0
15°	1156.9	1143.7	1151.8	1148.8	1153.2
17.5°	1140.0	1126.7	1134.8	1132.6	1136.3
20°	1121.6	1109.1	1117.2	1115.0	1118.7
22.5°	1101.0	1087.7	1095.1	1093.6	1096.6
25°	1076.0	1064.2	1071.5	1069.3	1072.3
27.5°	1049.5	1038.4	1044.3	1044.3	1045.8
30°	1020.8	1010.5	1016.4	1016.4	1017.1
32.5°	989.9	981.8	985.4	986.2	986.2
35°	956.7	950.1	953.1	953.8	953.8
37.5°	922.2	915.5	917.7	919.2	919.2
40°	885.4	879.5	880.9	882.4	881.7
42.5°	845.6	841.2	841.9	843.4	843.4
45°	805.1	801.5	801.5	802.9	802.9
47.5°	763.9	760.2	758.8	760.2	760.2
50°	719.0	715.3	713.9	715.3	715.3
52.5°	671.9	668.2	668.2	668.2	669.0
55°	623.4	619.7	618.2	619.7	620.4
57.5°	571.8	570.4	568.2	568.9	566.7
60°	516.6	516.6	514.4	515.9	514.4
62.5°	462.9	464.4	462.2	462.2	460.7
65°	407.7	409.2	407.0	407.0	405.5
67.5°	351.1	353.3	350.3	350.3	348.8
70°	292.2	296.6	293.6	294.4	292.9
72.5°	239.2	241.4	238.4	238.4	237.0
75°	186.2	187.7	184.7	185.5	183.3
77.5°	133.9	136.2	133.2	133.9	133.2
80°	89.8	90.5	88.3	89.1	87.6
82.5°	52.3	53.0	52.3	51.5	50.8
85°	23.6	24.3	23.6	23.6	22.8
87.5°	5.9	5.9	5.9	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)