

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: P973615

Luminaire Tested: FLR2-22-35-L840-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973615
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-L840-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

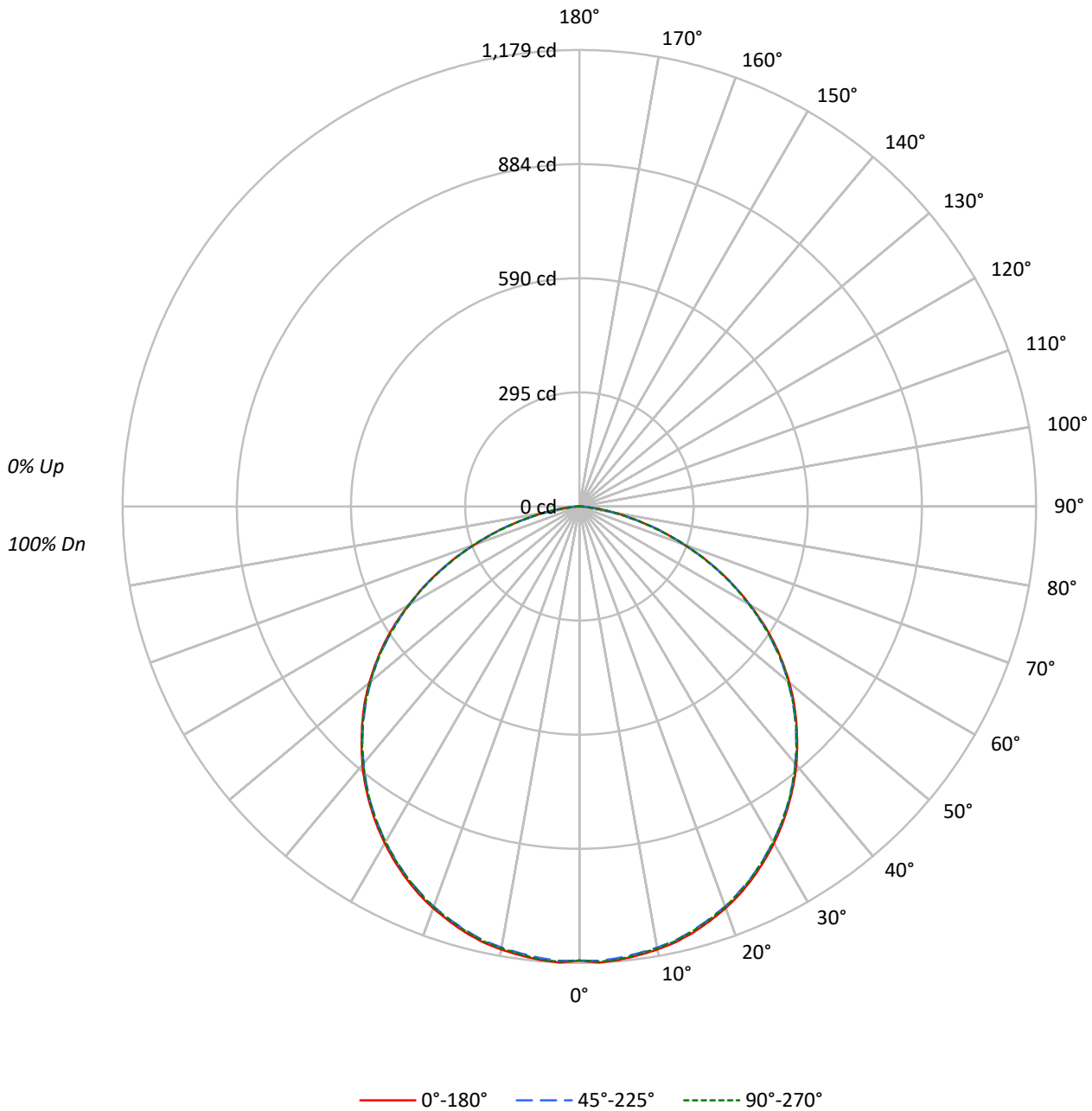
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3279.8 lumens
Efficiency: N/A
Efficacy: 117.6 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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3156	3156	3156
5°	3176	3162	3172
10°	3175	3161	3167
15°	3173	3158	3163
20°	3162	3149	3153
25°	3145	3132	3134
30°	3122	3109	3111
35°	3094	3082	3084
40°	3061	3046	3048
45°	3016	3002	3008
50°	2963	2942	2948
55°	2879	2855	2865
60°	2737	2725	2725
65°	2555	2551	2542
70°	2263	2274	2268
75°	1906	1890	1876
80°	1370	1347	1336
85°	716	716	695

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3016 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	3.4
10°-20°	319.4	9.7
20°-30°	485.3	14.8
30°-40°	586.6	17.9
40°-50°	608.9	18.6
50°-60°	544.4	16.6
60°-70°	395.8	12.1
70°-80°	194.6	5.9
80°-90°	33.8	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°	915.8	27.9
0°-40°	1502.4	45.8
0°-60°	2655.7	81.0
0°-90°	3279.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3279.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1173	1173	1173	1173	1173	
5°	1176	1162	1171	1166	1174	112
15°	1139	1126	1134	1131	1135	321
25°	1059	1048	1055	1053	1056	488
35°	942	935	938	939	939	589
45°	792	789	789	790	790	611
55°	614	610	608	610	611	547
65°	401	403	401	401	399	396
75°	183	185	182	183	180	195
85°	23	24	23	23	22	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1172.8	1172.8	1172.8	1172.8	1172.8
2.5°	1179.3	1165.6	1174.3	1169.2	1177.2
5°	1175.7	1162.0	1170.7	1166.3	1174.3
7.5°	1169.2	1155.4	1164.1	1159.8	1166.3
10°	1162.0	1147.5	1156.9	1152.5	1159.1
12.5°	1152.5	1138.8	1147.5	1143.8	1149.6
15°	1138.8	1125.7	1133.7	1130.8	1135.2
17.5°	1122.1	1109.1	1117.0	1114.9	1118.5
20°	1104.0	1091.7	1099.7	1097.5	1101.1
22.5°	1083.7	1070.7	1077.9	1076.5	1079.4
25°	1059.1	1047.5	1054.7	1052.6	1055.5
27.5°	1033.0	1022.1	1027.9	1027.9	1029.4
30°	1004.8	994.6	1000.4	1000.4	1001.1
32.5°	974.3	966.4	970.0	970.7	970.7
35°	941.7	935.2	938.1	938.8	938.8
37.5°	907.7	901.2	903.3	904.8	904.8
40°	871.5	865.7	867.1	868.6	867.8
42.5°	832.4	828.0	828.7	830.2	830.2
45°	792.5	788.9	788.9	790.3	790.3
47.5°	751.9	748.3	746.9	748.3	748.3
50°	707.8	704.1	702.7	704.1	704.1
52.5°	661.4	657.8	657.8	657.8	658.5
55°	613.6	610.0	608.5	610.0	610.7
57.5°	562.9	561.4	559.2	560.0	557.8
60°	508.5	508.5	506.4	507.8	506.4
62.5°	455.7	457.1	454.9	454.9	453.5
65°	401.3	402.8	400.6	400.6	399.2
67.5°	345.5	347.7	344.8	344.8	343.4
70°	287.6	291.9	289.0	289.8	288.3
72.5°	235.4	237.6	234.7	234.7	233.3
75°	183.3	184.7	181.8	182.6	180.4
77.5°	131.8	134.0	131.1	131.8	131.1
80°	88.4	89.1	86.9	87.7	86.2
82.5°	51.4	52.2	51.4	50.7	50.0
85°	23.2	23.9	23.2	23.2	22.5
87.5°	5.8	5.8	5.8	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)