

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: P973619

Luminaire Tested: FLR2-22-35-L840-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973619
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

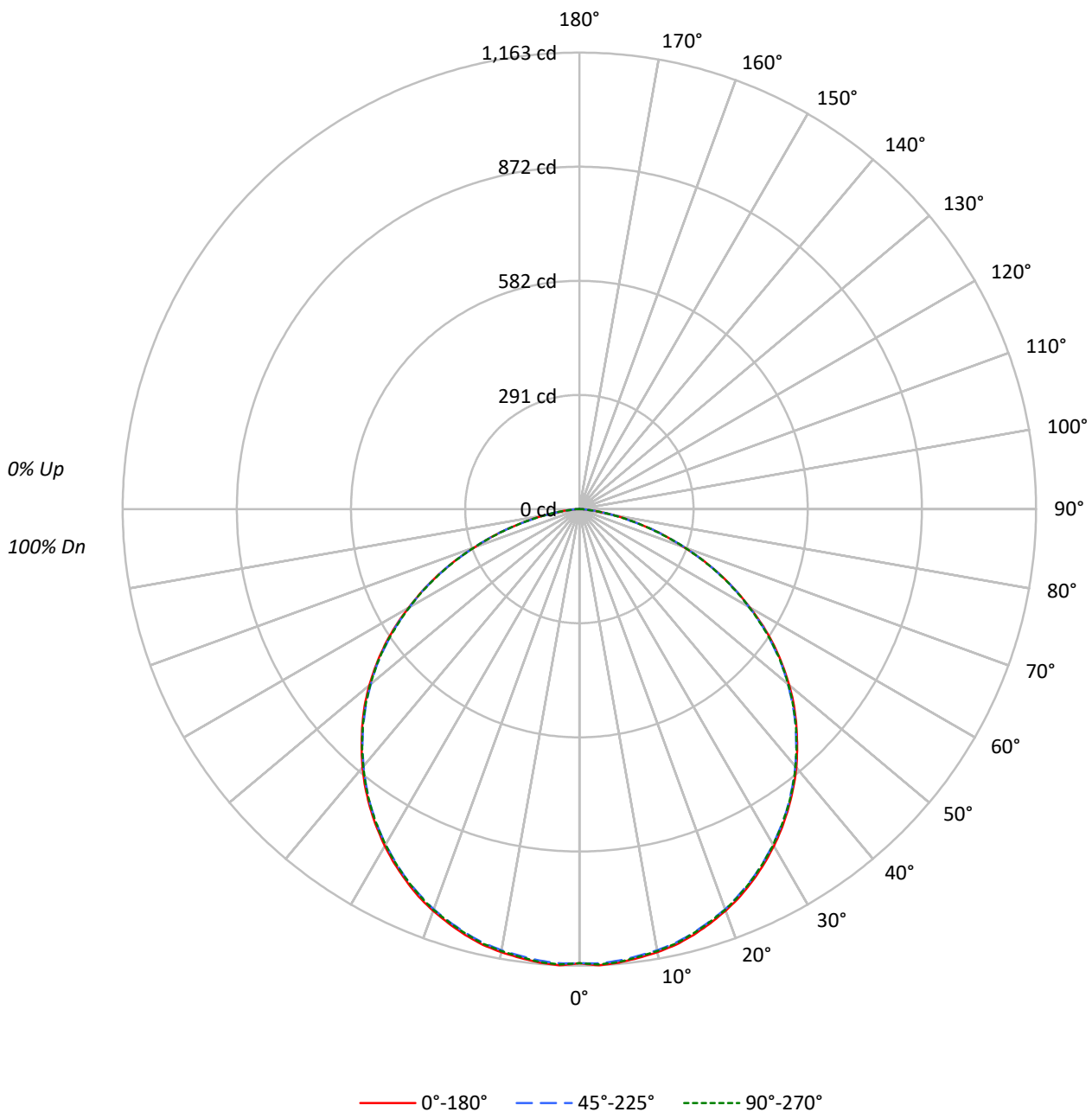
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3235.0 lumens
Efficiency: N/A
Efficacy: 115.9 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										
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°	3113	3113	3113
5°	3132	3119	3129
10°	3132	3118	3124
15°	3129	3115	3119
20°	3118	3106	3110
25°	3102	3089	3091
30°	3079	3066	3068
35°	3052	3040	3042
40°	3020	3005	3007
45°	2975	2961	2966
50°	2923	2902	2907
55°	2839	2816	2826
60°	2700	2688	2688
65°	2520	2516	2507
70°	2232	2243	2238
75°	1880	1864	1850
80°	1351	1328	1317
85°	707	707	682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2975 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	3.4
10°-20°	315.0	9.7
20°-30°	478.7	14.8
30°-40°	578.6	17.9
40°-50°	600.6	18.6
50°-60°	536.9	16.6
60°-70°	390.4	12.1
70°-80°	192.0	5.9
80°-90°	33.3	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°	903.2	27.9
0°-40°	1481.8	45.8
0°-60°	2619.3	81.0
0°-90°	3235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3235.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1157	1157	1157	1157	1157	
5°	1160	1146	1155	1150	1158	110
15°	1123	1110	1118	1115	1120	317
25°	1045	1033	1040	1038	1041	481
35°	929	922	925	926	926	581
45°	782	778	778	780	780	603
55°	605	602	600	602	602	539
65°	396	397	395	395	394	390
75°	181	182	179	180	178	192
85°	23	24	23	23	22	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1156.8	1156.8	1156.8	1156.8	1156.8
2.5°	1163.2	1149.6	1158.2	1153.2	1161.1
5°	1159.6	1146.1	1154.6	1150.4	1158.2
7.5°	1153.2	1139.6	1148.2	1143.9	1150.4
10°	1146.1	1131.8	1141.1	1136.8	1143.2
12.5°	1136.8	1123.2	1131.8	1128.2	1133.9
15°	1123.2	1110.3	1118.2	1115.3	1119.6
17.5°	1106.8	1093.9	1101.8	1099.6	1103.2
20°	1088.9	1076.8	1084.6	1082.5	1086.1
22.5°	1068.9	1056.0	1063.2	1061.8	1064.6
25°	1044.6	1033.2	1040.3	1038.2	1041.0
27.5°	1018.9	1008.2	1013.9	1013.9	1015.3
30°	991.0	981.0	986.7	986.7	987.4
32.5°	961.0	953.2	956.7	957.4	957.4
35°	928.9	922.4	925.3	926.0	926.0
37.5°	895.3	888.8	891.0	892.4	892.4
40°	859.6	853.8	855.3	856.7	856.0
42.5°	821.0	816.7	817.4	818.8	818.8
45°	781.7	778.1	778.1	779.5	779.5
47.5°	741.7	738.1	736.7	738.1	738.1
50°	698.1	694.5	693.1	694.5	694.5
52.5°	652.3	648.8	648.8	648.8	649.5
55°	605.2	601.6	600.2	601.6	602.3
57.5°	555.2	553.7	551.6	552.3	550.2
60°	501.6	501.6	499.4	500.9	499.4
62.5°	449.4	450.9	448.7	448.7	447.3
65°	395.8	397.3	395.1	395.1	393.7
67.5°	340.8	343.0	340.1	340.1	338.7
70°	283.7	287.9	285.1	285.8	284.4
72.5°	232.2	234.4	231.5	231.5	230.1
75°	180.8	182.2	179.3	180.1	177.9
77.5°	130.0	132.2	129.3	130.0	129.3
80°	87.2	87.9	85.7	86.5	85.0
82.5°	50.7	51.4	50.7	50.0	49.3
85°	22.9	23.6	22.9	22.9	22.1
87.5°	5.7	5.7	5.7	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)