

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: P973999

Luminaire Tested: FLR2-22-35HE-L850-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973999
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: FLR2-22-35HE-L850-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

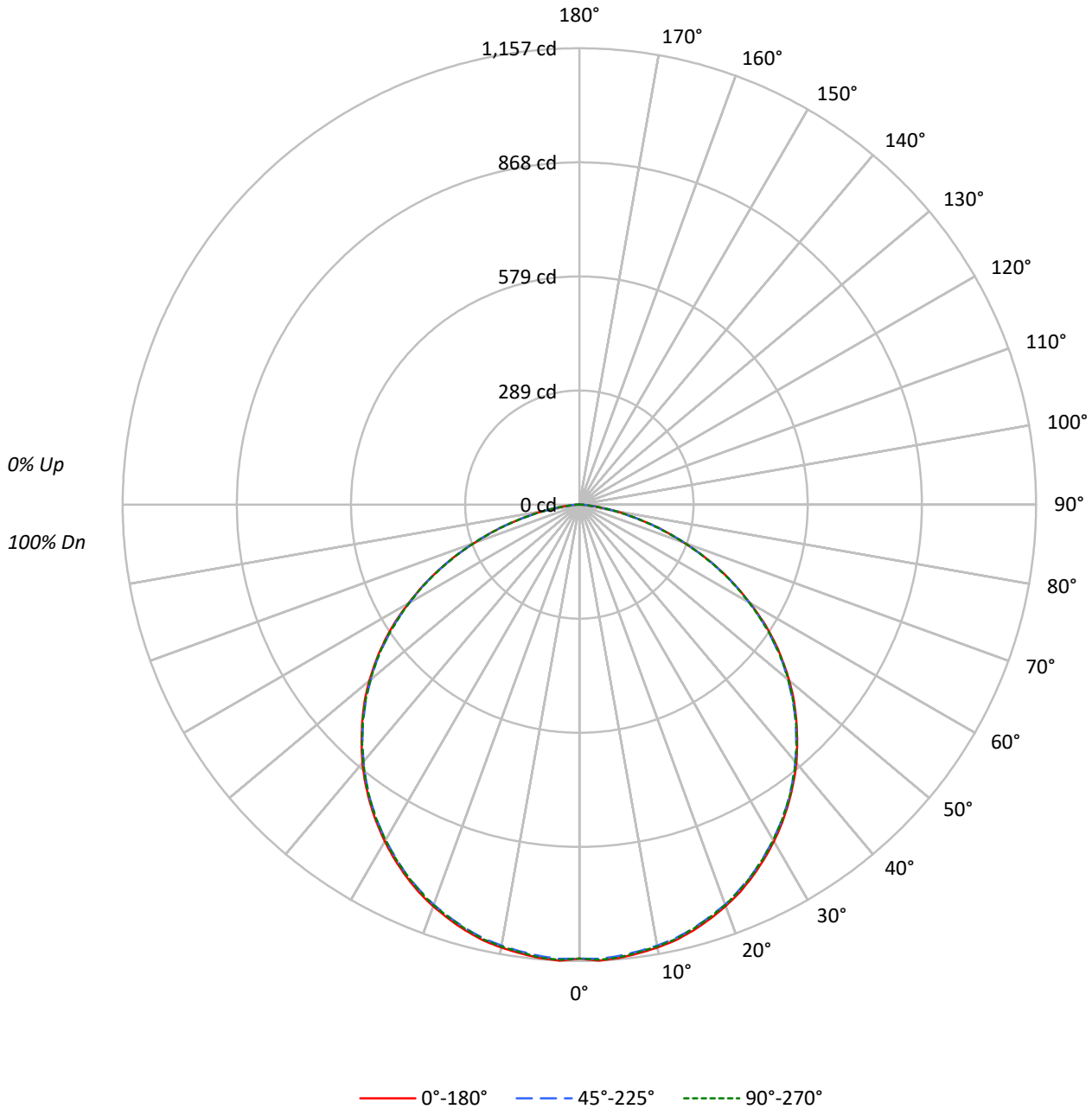
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3218.5 lumens
Efficiency: N/A
Efficacy: 118.3 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): 27.2
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°	3097	3097	3097
5°	3117	3103	3113
10°	3116	3102	3108
15°	3113	3099	3103
20°	3103	3090	3094
25°	3086	3073	3075
30°	3064	3050	3053
35°	3036	3024	3027
40°	3004	2989	2992
45°	2960	2946	2952
50°	2907	2887	2893
55°	2825	2801	2812
60°	2686	2674	2674
65°	2507	2503	2494
70°	2220	2231	2226
75°	1870	1855	1840
80°	1344	1322	1311
85°	701	701	679

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2960 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	3.4
10°-20°	313.4	9.7
20°-30°	476.3	14.8
30°-40°	575.7	17.9
40°-50°	597.5	18.6
50°-60°	534.2	16.6
60°-70°	388.4	12.1
70°-80°	191.0	5.9
80°-90°	33.1	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°	898.7	27.9
0°-40°	1474.3	45.8
0°-60°	2606.0	81.0
0°-90°	3218.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3218.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1154	1140	1149	1144	1152	110
15°	1118	1105	1112	1110	1114	315
25°	1039	1028	1035	1033	1036	479
35°	924	918	921	921	921	578
45°	778	774	774	776	776	600
55°	602	599	597	599	599	537
65°	394	395	393	393	392	388
75°	180	181	178	179	177	191
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°	1150.9	1150.9	1150.9	1150.9	1150.9
2.5°	1157.3	1143.8	1152.3	1147.4	1155.2
5°	1153.8	1140.2	1148.8	1144.5	1152.3
7.5°	1147.4	1133.9	1142.4	1138.1	1144.5
10°	1140.2	1126.0	1135.3	1131.0	1137.4
12.5°	1131.0	1117.5	1126.0	1122.5	1128.2
15°	1117.5	1104.7	1112.5	1109.7	1113.9
17.5°	1101.2	1088.4	1096.2	1094.0	1097.6
20°	1083.4	1071.3	1079.1	1077.0	1080.5
22.5°	1063.5	1050.7	1057.8	1056.4	1059.2
25°	1039.3	1027.9	1035.0	1032.9	1035.7
27.5°	1013.7	1003.0	1008.7	1008.7	1010.2
30°	986.0	976.0	981.7	981.7	982.4
32.5°	956.1	948.3	951.9	952.6	952.6
35°	924.1	917.7	920.6	921.3	921.3
37.5°	890.7	884.3	886.5	887.9	887.9
40°	855.2	849.5	850.9	852.3	851.6
42.5°	816.8	812.5	813.2	814.7	814.7
45°	777.7	774.1	774.1	775.6	775.6
47.5°	737.9	734.3	732.9	734.3	734.3
50°	694.5	691.0	689.6	691.0	691.0
52.5°	649.0	645.5	645.5	645.5	646.2
55°	602.1	598.6	597.1	598.6	599.3
57.5°	552.4	550.9	548.8	549.5	547.4
60°	499.0	499.0	496.9	498.3	496.9
62.5°	447.1	448.6	446.4	446.4	445.0
65°	393.8	395.2	393.1	393.1	391.7
67.5°	339.1	341.2	338.4	338.4	337.0
70°	282.2	286.5	283.6	284.4	282.9
72.5°	231.0	233.2	230.3	230.3	228.9
75°	179.9	181.3	178.4	179.1	177.0
77.5°	129.4	131.5	128.7	129.4	128.7
80°	86.7	87.4	85.3	86.0	84.6
82.5°	50.5	51.2	50.5	49.8	49.1
85°	22.7	23.5	22.7	22.7	22.0
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)