

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: P973747

Luminaire Tested: FLR2-22-35HE-L830-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973747
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-L830-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

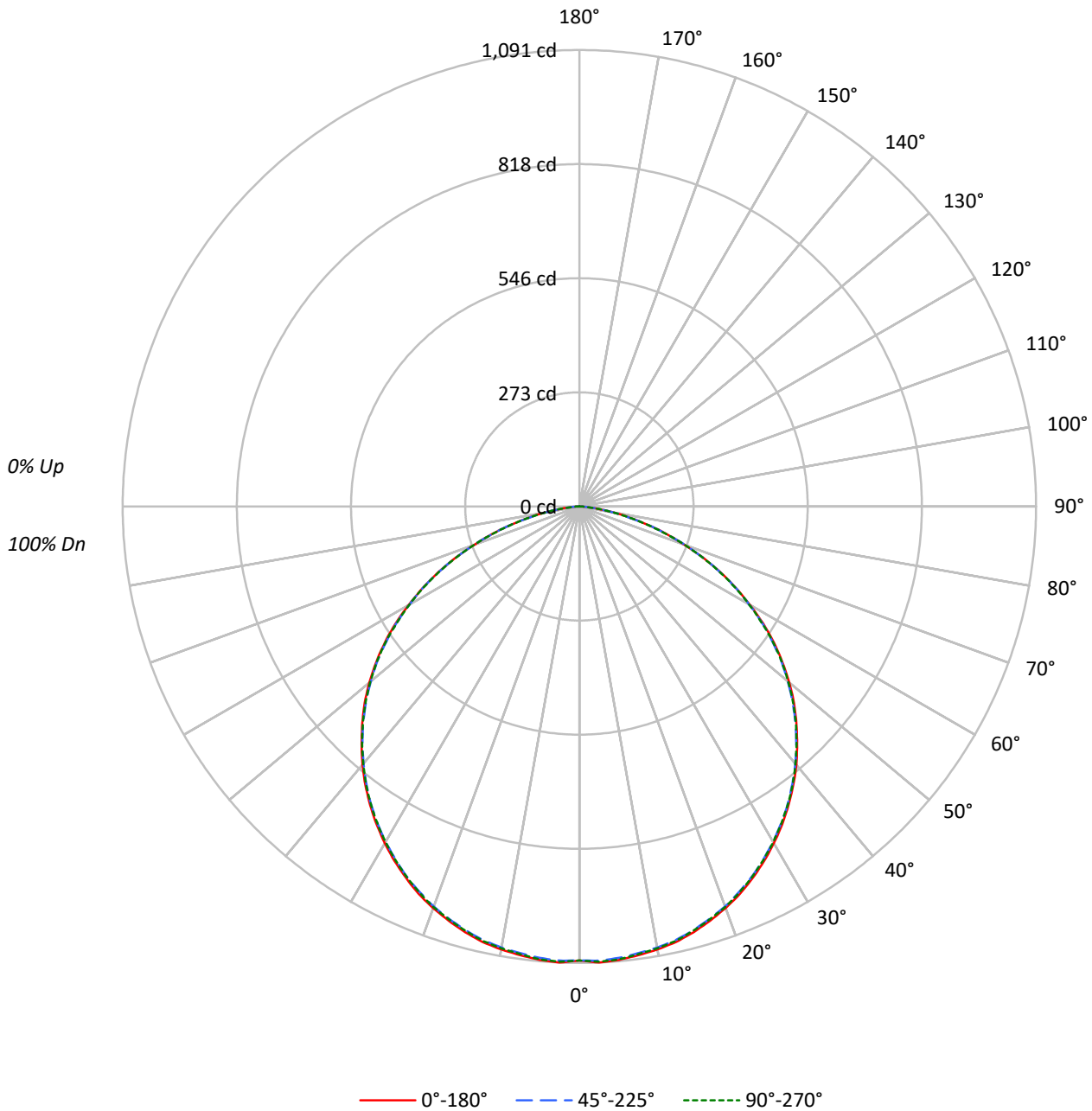
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3034.6 lumens
Efficiency: N/A
Efficacy: 111.6 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): 27.2
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°	2920	2920	2920
5°	2938	2926	2935
10°	2938	2925	2930
15°	2935	2922	2926
20°	2925	2914	2918
25°	2909	2898	2900
30°	2889	2876	2878
35°	2862	2851	2854
40°	2832	2818	2821
45°	2791	2778	2783
50°	2741	2722	2727
55°	2663	2641	2651
60°	2532	2521	2521
65°	2364	2360	2351
70°	2094	2104	2099
75°	1763	1749	1735
80°	1268	1246	1237
85°	661	661	642

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2791 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	3.4
10°-20°	295.5	9.7
20°-30°	449.1	14.8
30°-40°	542.8	17.9
40°-50°	563.4	18.6
50°-60°	503.7	16.6
60°-70°	366.2	12.1
70°-80°	180.1	5.9
80°-90°	31.2	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°	847.3	27.9
0°-40°	1390.1	45.8
0°-60°	2457.1	81.0
0°-90°	3034.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3034.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1085	1085	1085	1085	1085	
5°	1088	1075	1083	1079	1086	103
15°	1054	1042	1049	1046	1050	297
25°	980	969	976	974	977	452
35°	871	865	868	869	869	545
45°	733	730	730	731	731	566
55°	568	564	563	564	565	506
65°	371	373	371	371	369	366
75°	170	171	168	169	167	180
85°	21	22	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°	1085.1	1085.1	1085.1	1085.1	1085.1
2.5°	1091.2	1078.4	1086.5	1081.8	1089.2
5°	1087.8	1075.1	1083.1	1079.1	1086.5
7.5°	1081.8	1069.1	1077.1	1073.1	1079.1
10°	1075.1	1061.7	1070.4	1066.4	1072.4
12.5°	1066.4	1053.6	1061.7	1058.3	1063.7
15°	1053.6	1041.6	1049.0	1046.3	1050.3
17.5°	1038.2	1026.2	1033.5	1031.5	1034.9
20°	1021.5	1010.1	1017.4	1015.4	1018.8
22.5°	1002.7	990.6	997.3	996.0	998.7
25°	979.9	969.2	975.9	973.9	976.6
27.5°	955.8	945.7	951.1	951.1	952.4
30°	929.6	920.3	925.6	925.6	926.3
32.5°	901.5	894.1	897.5	898.1	898.1
35°	871.3	865.3	868.0	868.7	868.7
37.5°	839.8	833.8	835.8	837.2	837.2
40°	806.3	801.0	802.3	803.6	803.0
42.5°	770.1	766.1	766.8	768.1	768.1
45°	733.3	729.9	729.9	731.2	731.2
47.5°	695.7	692.4	691.0	692.4	692.4
50°	654.8	651.5	650.1	651.5	651.5
52.5°	611.9	608.6	608.6	608.6	609.3
55°	567.7	564.4	563.0	564.4	565.0
57.5°	520.8	519.4	517.4	518.1	516.1
60°	470.5	470.5	468.5	469.8	468.5
62.5°	421.6	422.9	420.9	420.9	419.6
65°	371.3	372.7	370.7	370.7	369.3
67.5°	319.7	321.7	319.0	319.0	317.7
70°	266.1	270.1	267.4	268.1	266.8
72.5°	217.8	219.8	217.2	217.2	215.8
75°	169.6	170.9	168.2	168.9	166.9
77.5°	122.0	124.0	121.3	122.0	121.3
80°	81.8	82.4	80.4	81.1	79.8
82.5°	47.6	48.3	47.6	46.9	46.2
85°	21.4	22.1	21.4	21.4	20.8
87.5°	5.4	5.4	5.4	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)