

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: P973819

Luminaire Tested: FLR2-22-35HE-L835-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973819
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-L835-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

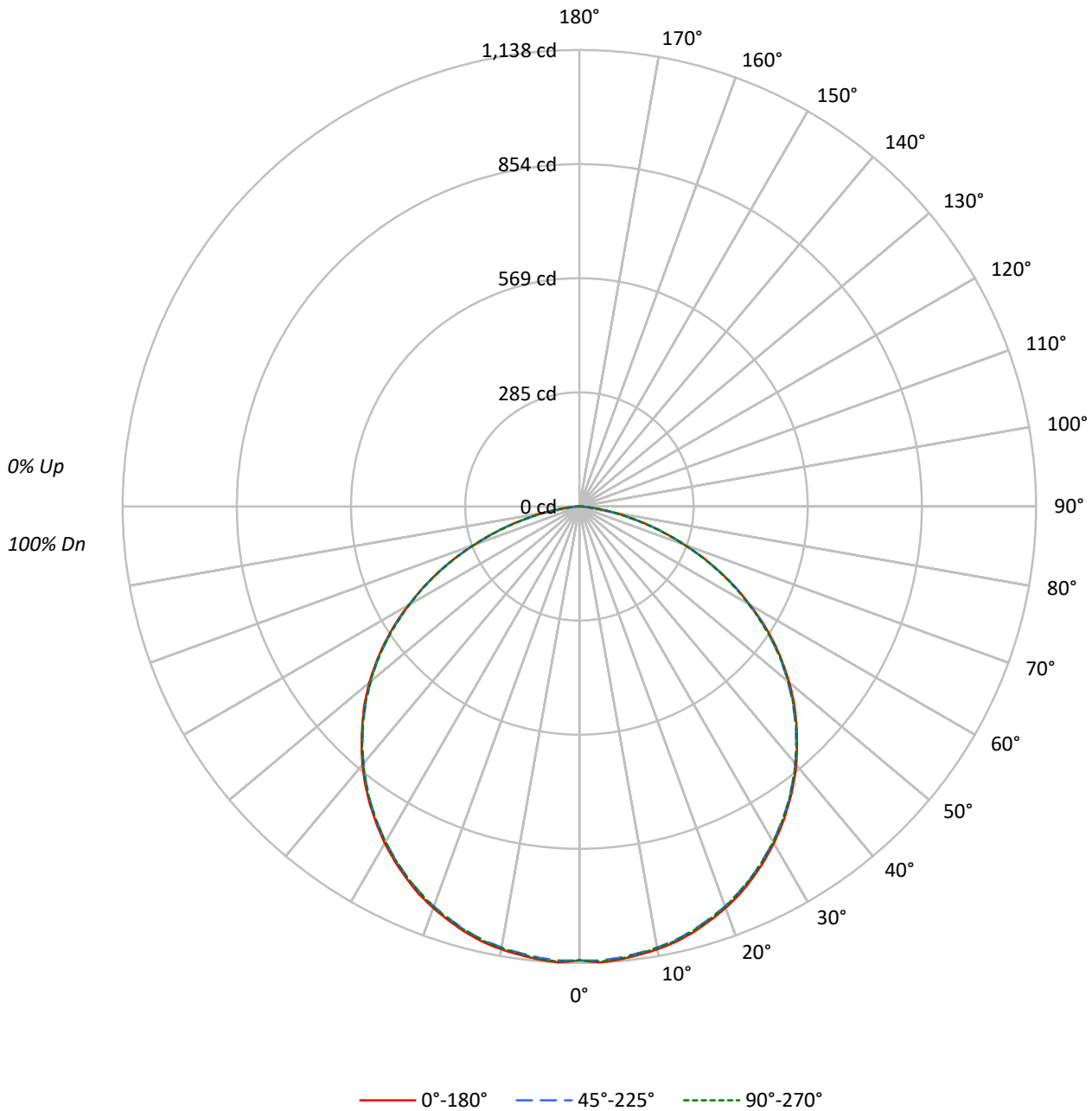
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3164.6 lumens
Efficiency: N/A
Efficacy: 116.3 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																		
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	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°	3045	3045	3045
5°	3064	3051	3061
10°	3063	3050	3056
15°	3061	3048	3051
20°	3050	3038	3042
25°	3034	3022	3024
30°	3013	2999	3002
35°	2985	2974	2976
40°	2954	2939	2942
45°	2910	2897	2902
50°	2859	2838	2844
55°	2777	2754	2764
60°	2641	2630	2630
65°	2465	2461	2452
70°	2183	2194	2189
75°	1838	1824	1809
80°	1322	1300	1289
85°	692	692	670

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2910 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	3.4
10°-20°	308.2	9.7
20°-30°	468.3	14.8
30°-40°	566.0	17.9
40°-50°	587.5	18.6
50°-60°	525.3	16.6
60°-70°	381.9	12.1
70°-80°	187.8	5.9
80°-90°	32.6	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°	883.6	27.9
0°-40°	1449.6	45.8
0°-60°	2562.4	81.0
0°-90°	3164.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3164.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1134	1121	1130	1125	1133	108
15°	1099	1086	1094	1091	1095	310
25°	1022	1011	1018	1016	1018	471
35°	909	902	905	906	906	568
45°	765	761	761	763	763	590
55°	592	588	587	588	589	528
65°	387	389	386	386	385	382
75°	177	178	175	176	174	188
85°	22	23	22	22	22	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1131.6	1131.6	1131.6	1131.6	1131.6
2.5°	1137.9	1124.6	1133.0	1128.1	1135.8
5°	1134.4	1121.1	1129.5	1125.3	1133.0
7.5°	1128.1	1114.9	1123.2	1119.0	1125.3
10°	1121.1	1107.2	1116.2	1112.1	1118.3
12.5°	1112.1	1098.8	1107.2	1103.7	1109.3
15°	1098.8	1086.2	1093.9	1091.1	1095.3
17.5°	1082.7	1070.1	1077.8	1075.7	1079.2
20°	1065.2	1053.3	1061.0	1058.9	1062.4
22.5°	1045.7	1033.1	1040.1	1038.7	1041.5
25°	1021.9	1010.7	1017.7	1015.6	1018.4
27.5°	996.7	986.2	991.8	991.8	993.2
30°	969.5	959.7	965.3	965.3	966.0
32.5°	940.1	932.4	935.9	936.6	936.6
35°	908.7	902.4	905.2	905.9	905.9
37.5°	875.8	869.5	871.6	873.0	873.0
40°	840.9	835.3	836.7	838.1	837.4
42.5°	803.1	798.9	799.6	801.0	801.0
45°	764.7	761.2	761.2	762.6	762.6
47.5°	725.5	722.0	720.6	722.0	722.0
50°	682.9	679.4	678.0	679.4	679.4
52.5°	638.2	634.7	634.7	634.7	635.4
55°	592.0	588.5	587.1	588.5	589.2
57.5°	543.1	541.7	539.6	540.3	538.2
60°	490.7	490.7	488.6	490.0	488.6
62.5°	439.6	441.0	439.0	439.0	437.6
65°	387.2	388.6	386.5	386.5	385.1
67.5°	333.4	335.5	332.7	332.7	331.3
70°	277.5	281.7	278.9	279.6	278.2
72.5°	227.2	229.3	226.5	226.5	225.1
75°	176.8	178.2	175.4	176.1	174.0
77.5°	127.2	129.3	126.5	127.2	126.5
80°	85.3	86.0	83.9	84.6	83.2
82.5°	49.6	50.3	49.6	48.9	48.2
85°	22.4	23.1	22.4	22.4	21.7
87.5°	5.6	5.6	5.6	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)