

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: P973735

Luminaire Tested: FLR2-22-35HE-L830-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973735
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

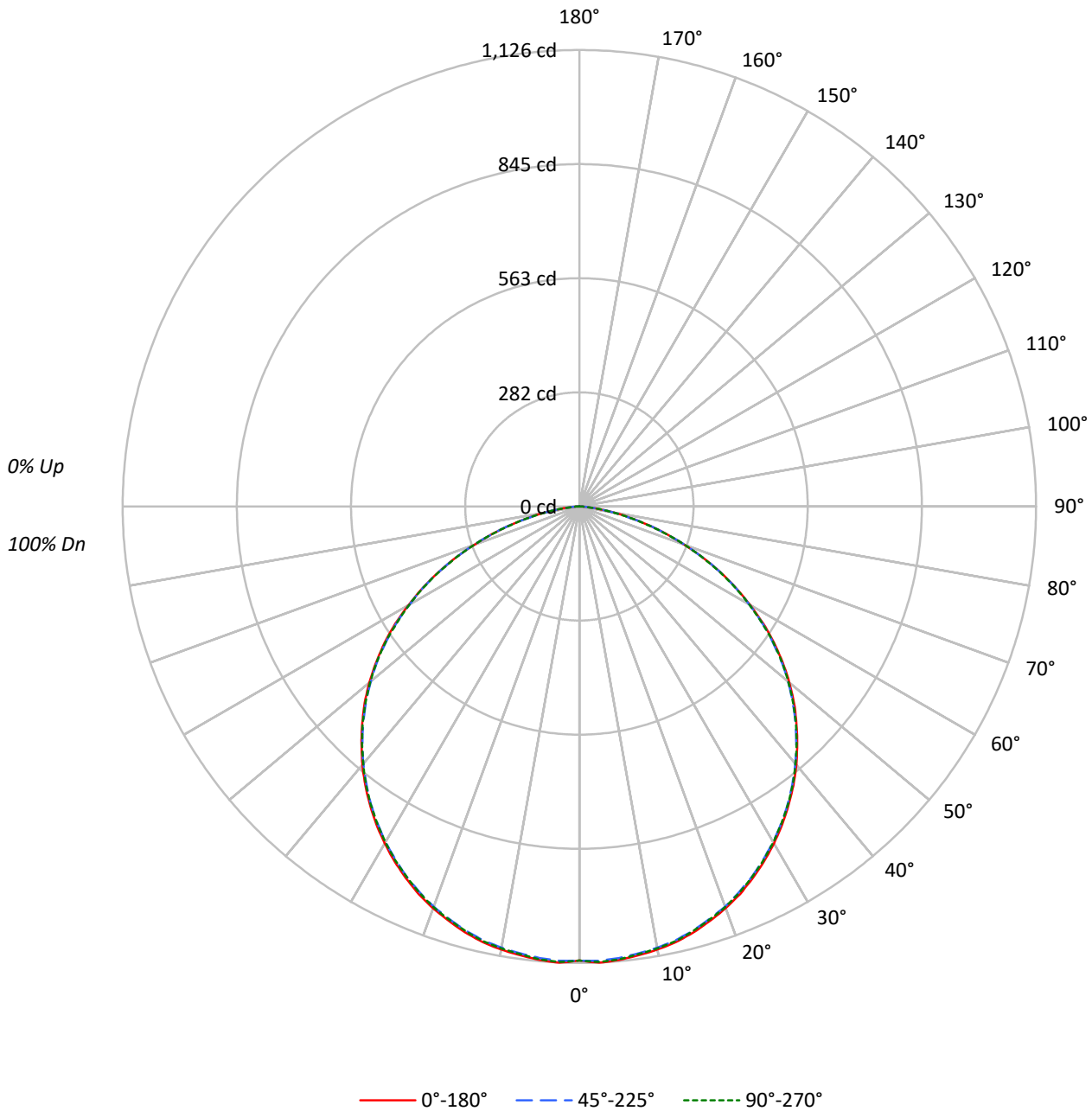
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3132.9 lumens
Efficiency: N/A
Efficacy: 115.2 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									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°	3015	3015	3015
5°	3034	3021	3030
10°	3033	3020	3025
15°	3031	3017	3021
20°	3020	3008	3012
25°	3004	2991	2994
30°	2982	2969	2971
35°	2955	2944	2946
40°	2924	2910	2912
45°	2881	2868	2873
50°	2830	2810	2816
55°	2750	2727	2737
60°	2615	2603	2603
65°	2441	2437	2428
70°	2161	2172	2167
75°	1821	1806	1791
80°	1308	1286	1275
85°	682	682	664

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2881 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	3.4
10°-20°	305.1	9.7
20°-30°	463.6	14.8
30°-40°	560.4	17.9
40°-50°	581.6	18.6
50°-60°	520.0	16.6
60°-70°	378.1	12.1
70°-80°	185.9	5.9
80°-90°	32.2	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°	874.8	27.9
0°-40°	1435.1	45.8
0°-60°	2536.7	81.0
0°-90°	3132.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3132.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1120	1120	1120	1120	1120	
5°	1123	1110	1118	1114	1122	107
15°	1088	1075	1083	1080	1084	307
25°	1012	1001	1008	1005	1008	466
35°	900	893	896	897	897	563
45°	757	754	754	755	755	584
55°	586	583	581	583	583	522
65°	383	385	383	383	381	378
75°	175	176	174	174	172	186
85°	22	23	22	22	22	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1120.3	1120.3	1120.3	1120.3	1120.3
2.5°	1126.5	1113.4	1121.7	1116.9	1124.5
5°	1123.1	1109.9	1118.2	1114.1	1121.7
7.5°	1116.9	1103.7	1112.0	1107.9	1114.1
10°	1109.9	1096.1	1105.1	1100.9	1107.2
12.5°	1100.9	1087.8	1096.1	1092.6	1098.2
15°	1087.8	1075.3	1082.9	1080.2	1084.3
17.5°	1071.9	1059.4	1067.0	1065.0	1068.4
20°	1054.6	1042.8	1050.4	1048.3	1051.8
22.5°	1035.2	1022.7	1029.7	1028.3	1031.0
25°	1011.7	1000.6	1007.5	1005.4	1008.2
27.5°	986.8	976.4	981.9	981.9	983.3
30°	959.8	950.1	955.6	955.6	956.3
32.5°	930.7	923.1	926.6	927.2	927.2
35°	899.6	893.3	896.1	896.8	896.8
37.5°	867.0	860.8	862.9	864.3	864.3
40°	832.4	826.9	828.3	829.7	829.0
42.5°	795.1	790.9	791.6	793.0	793.0
45°	757.0	753.6	753.6	754.9	754.9
47.5°	718.3	714.8	713.4	714.8	714.8
50°	676.1	672.6	671.2	672.6	672.6
52.5°	631.8	628.3	628.3	628.3	629.0
55°	586.1	582.6	581.3	582.6	583.3
57.5°	537.7	536.3	534.2	534.9	532.8
60°	485.8	485.8	483.7	485.1	483.7
62.5°	435.3	436.6	434.6	434.6	433.2
65°	383.4	384.7	382.7	382.7	381.3
67.5°	330.1	332.1	329.4	329.4	328.0
70°	274.7	278.9	276.1	276.8	275.4
72.5°	224.9	227.0	224.2	224.2	222.8
75°	175.1	176.5	173.7	174.4	172.3
77.5°	125.9	128.0	125.2	125.9	125.2
80°	84.4	85.1	83.0	83.7	82.3
82.5°	49.1	49.8	49.1	48.4	47.7
85°	22.1	22.8	22.1	22.1	21.5
87.5°	5.5	5.5	5.5	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)