

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: P973627

Luminaire Tested: FLR2-22-35-L840-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973627
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-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

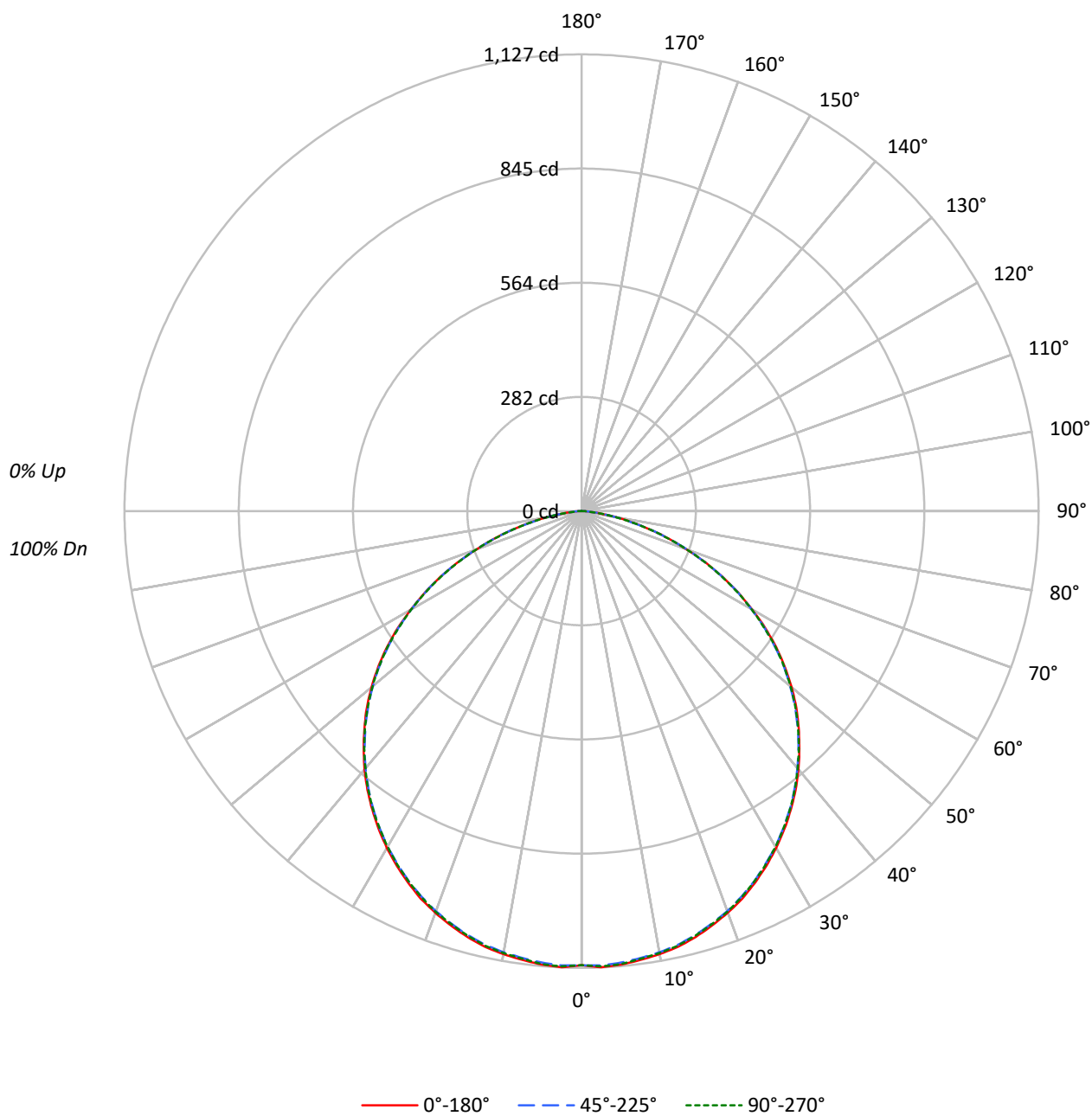
Lumens per Lamp: N/A
Luminaire Lumens: 3133.4 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 27.9
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					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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	3031
10°	3033	3020	3026
15°	3031	3017	3021
20°	3020	3009	3013
25°	3004	2992	2994
30°	2983	2970	2972
35°	2956	2944	2946
40°	2925	2910	2912
45°	2881	2868	2874
50°	2831	2810	2816
55°	2750	2727	2737
60°	2615	2604	2604
65°	2441	2437	2428
70°	2162	2172	2167
75°	1821	1806	1791
80°	1308	1286	1277
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°	463.7	14.8
30°-40°	560.4	17.9
40°-50°	581.7	18.6
50°-60°	520.1	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°	874.9	27.9
0°-40°	1435.3	45.8
0°-60°	2537.1	81.0
0°-90°	3133.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3133.4	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	1076	1083	1080	1084	307
25°	1012	1001	1008	1006	1008	466
35°	900	894	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°	1120.5	1120.5	1120.5	1120.5	1120.5
2.5°	1126.7	1113.6	1121.9	1117.0	1124.6
5°	1123.2	1110.1	1118.4	1114.2	1121.9
7.5°	1117.0	1103.9	1112.2	1108.0	1114.2
10°	1110.1	1096.3	1105.3	1101.1	1107.3
12.5°	1101.1	1087.9	1096.3	1092.8	1098.3
15°	1087.9	1075.5	1083.1	1080.3	1084.5
17.5°	1072.0	1059.6	1067.2	1065.1	1068.6
20°	1054.7	1043.0	1050.6	1048.5	1052.0
22.5°	1035.4	1022.9	1029.8	1028.4	1031.2
25°	1011.8	1000.7	1007.7	1005.6	1008.4
27.5°	986.9	976.5	982.1	982.1	983.4
30°	959.9	950.2	955.8	955.8	956.5
32.5°	930.8	923.2	926.7	927.4	927.4
35°	899.7	893.5	896.2	896.9	896.9
37.5°	867.2	860.9	863.0	864.4	864.4
40°	832.6	827.0	828.4	829.8	829.1
42.5°	795.2	791.0	791.7	793.1	793.1
45°	757.1	753.7	753.7	755.1	755.1
47.5°	718.4	714.9	713.5	714.9	714.9
50°	676.2	672.7	671.3	672.7	672.7
52.5°	631.9	628.4	628.4	628.4	629.1
55°	586.2	582.7	581.3	582.7	583.4
57.5°	537.7	536.4	534.3	535.0	532.9
60°	485.8	485.8	483.8	485.1	483.8
62.5°	435.3	436.7	434.6	434.6	433.2
65°	383.4	384.8	382.7	382.7	381.3
67.5°	330.1	332.2	329.4	329.4	328.0
70°	274.8	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°	126.0	128.0	125.3	126.0	125.3
80°	84.4	85.1	83.0	83.7	82.4
82.5°	49.1	49.8	49.1	48.4	47.8
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)