

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: P974714

Luminaire Tested: FLR2-24-20HE-L835-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-20HE-L835-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

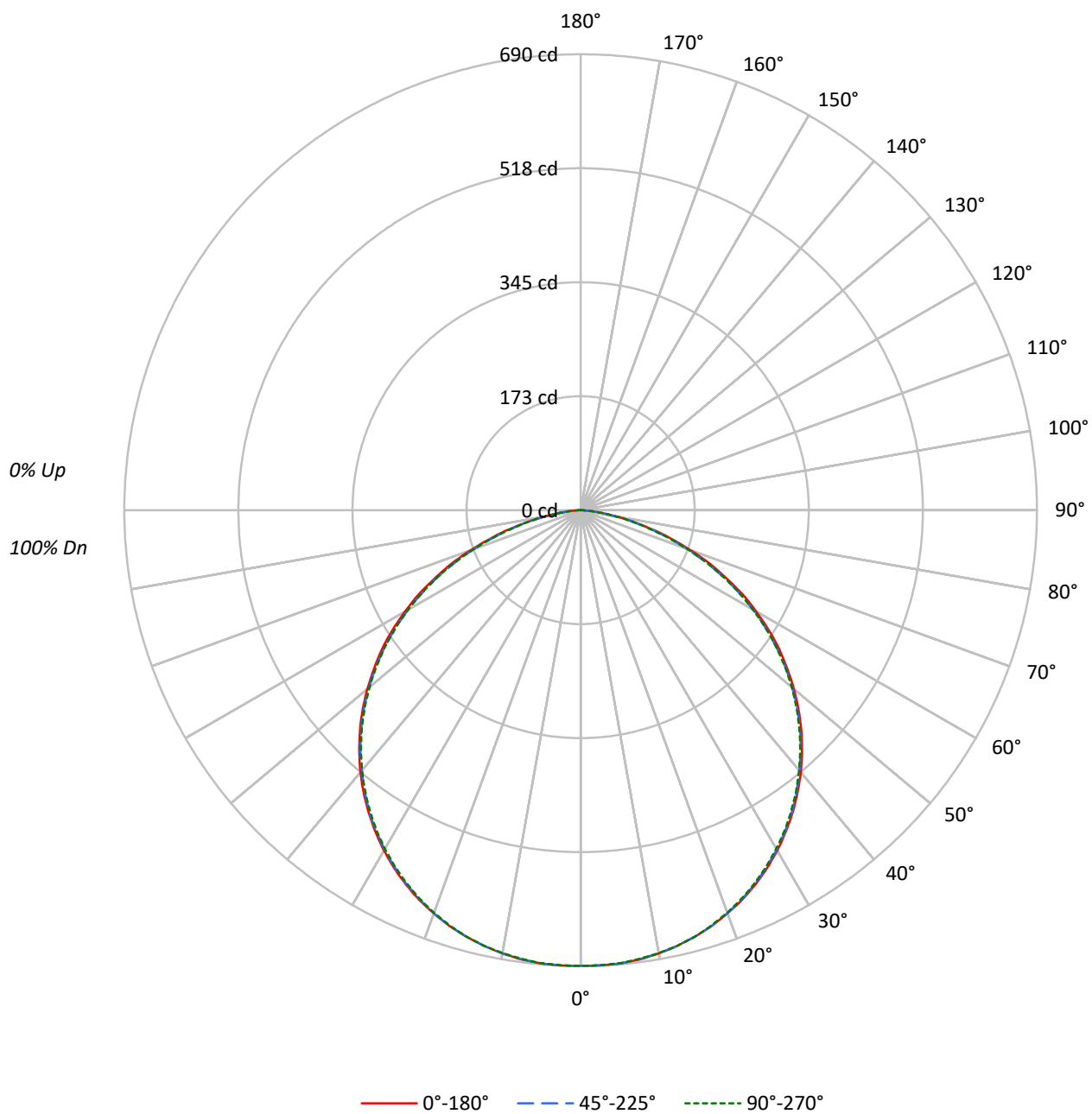
Lumens per Lamp: N/A
Luminaire Lumens: 1949.4 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 14.9
Input Voltage (V):
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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	105	100	97	106	102	99	95	98	95	92		94	92	89		85
2	99	91	85	79	97	89	83	78	86	81	76		83	78	75		71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		51
5	76	64	55	48	74	62	54	48	60	53	47		58	52	47		44
6	70	57	48	42	69	56	48	42	54	47	41		53	46	41		38
7	65	52	43	37	64	51	43	37	49	42	37		48	41	36		34
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		30
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		27
10	53	40	32	27	52	39	32	27	38	31	27		38	31	26		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	928	928	928
5°	930	930	929
10°	931	930	930
15°	931	930	930
20°	930	930	928
25°	928	926	925
30°	924	921	919
35°	918	915	912
40°	910	904	903
45°	898	893	890
50°	881	875	872
55°	860	848	847
60°	825	810	810
65°	771	753	755
70°	694	673	671
75°	583	560	557
80°	425	404	422
85°	241	222	225

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 898 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	3.4
10°-20°	188.6	9.7
20°-30°	287.6	14.8
30°-40°	348.4	17.9
40°-50°	361.9	18.6
50°-60°	323.8	16.6
60°-70°	235.9	12.1
70°-80°	116.9	6.0
80°-90°	20.9	1.1
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°	541.7	27.8
0°-40°	890.1	45.7
0°-60°	1575.7	80.8
0°-90°	1949.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1949.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	690	690	690	690	690	
5°	688	689	688	688	688	65
15°	668	668	668	668	668	189
25°	625	624	624	624	623	288
35°	559	558	557	556	555	350
45°	472	471	469	468	468	364
55°	367	364	362	362	361	327
65°	242	240	237	238	237	240
75°	112	110	108	110	107	120
85°	16	14	14	15	15	22
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	689.7	689.7	689.7	689.7	689.7
2.5°	689.7	689.5	689.5	689.7	689.2
5°	688.5	688.8	688.5	688.5	688.0
7.5°	685.8	685.5	685.3	685.5	684.8
10°	681.1	681.1	680.8	681.1	680.6
12.5°	675.4	675.4	675.4	675.6	675.4
15°	668.2	668.0	668.0	668.5	668.0
17.5°	659.8	659.5	659.5	659.3	658.8
20°	649.4	649.4	649.2	648.9	648.2
22.5°	638.3	638.0	637.3	637.3	636.3
25°	625.1	624.4	623.9	623.7	622.9
27.5°	610.8	609.8	609.1	608.6	607.8
30°	594.7	593.7	593.0	592.2	591.7
32.5°	577.4	576.9	575.7	575.4	574.4
35°	558.8	558.1	557.3	556.3	555.4
37.5°	539.0	538.3	536.5	536.1	535.3
40°	518.0	517.0	514.8	514.8	514.0
42.5°	495.5	494.5	493.0	492.0	491.5
45°	472.0	471.0	469.2	468.2	467.7
47.5°	447.0	446.2	444.2	443.5	442.8
50°	421.0	420.0	417.8	417.3	416.5
52.5°	393.7	393.3	390.3	390.0	389.3
55°	366.8	364.1	361.6	361.6	361.1
57.5°	337.1	335.1	331.9	331.9	331.4
60°	306.4	304.7	300.9	301.4	300.9
62.5°	276.4	272.7	269.3	270.7	269.5
65°	242.3	240.3	236.6	237.6	237.3
67.5°	211.1	207.4	203.9	205.9	204.9
70°	176.5	174.5	171.0	173.0	170.5
72.5°	143.8	142.1	138.6	140.8	138.3
75°	112.1	110.4	107.7	109.6	107.2
77.5°	82.2	80.9	78.5	80.4	80.9
80°	54.9	53.5	52.2	54.0	54.4
82.5°	32.2	31.2	30.7	30.9	32.2
85°	15.6	14.4	14.4	14.6	14.6
87.5°	4.2	3.7	4.2	4.5	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)