

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: P974659

Luminaire Tested: FLR2-24-20HE-L835-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974659
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

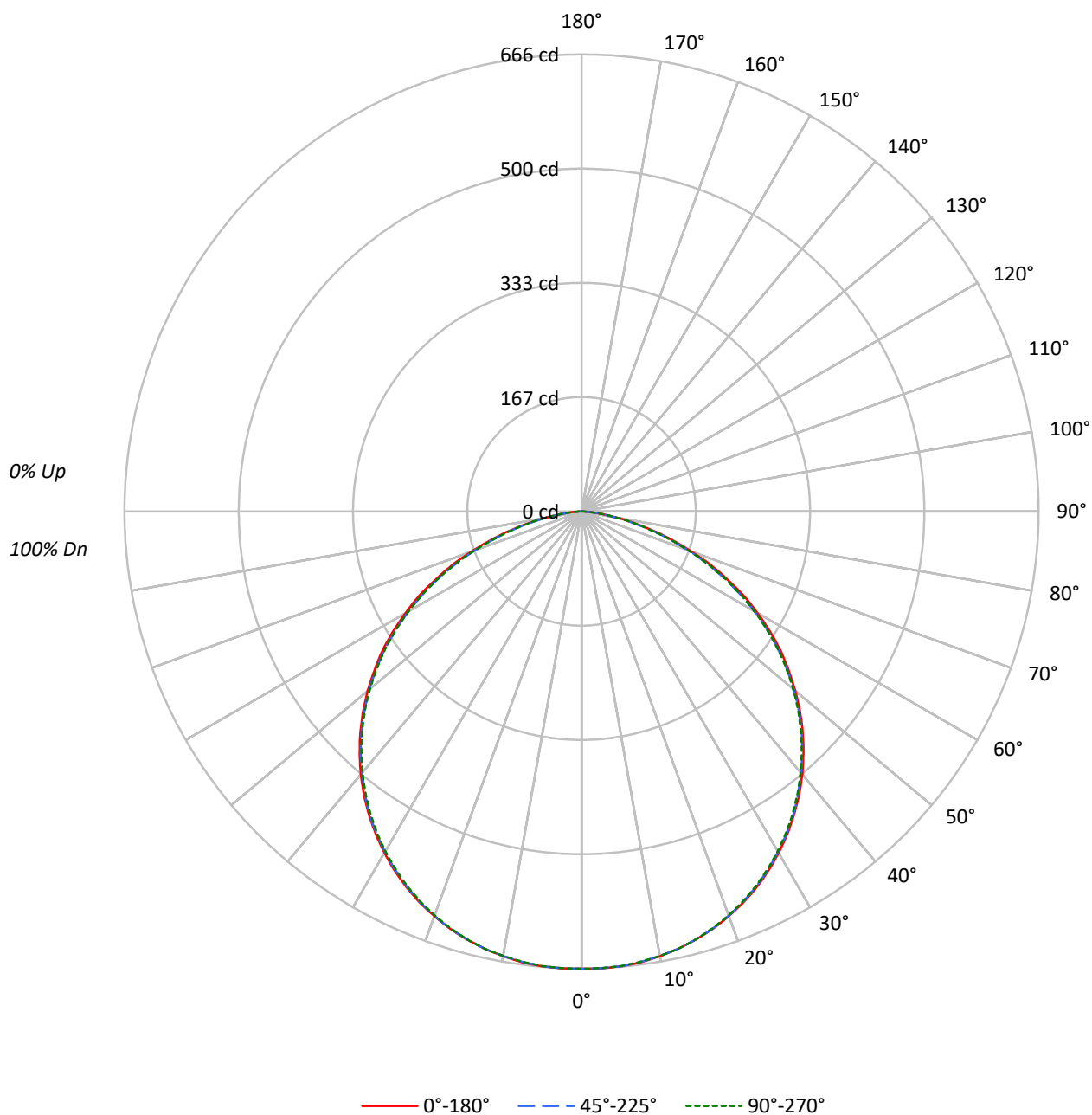
Lumens per Lamp: N/A
Luminaire Lumens: 1883.6 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	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	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	897	897	897
5°	898	898	898
10°	899	899	898
15°	899	899	899
20°	898	898	897
25°	897	895	894
30°	893	890	888
35°	887	885	881
40°	879	874	872
45°	868	863	860
50°	851	845	842
55°	831	820	818
60°	797	783	783
65°	745	728	730
70°	671	650	648
75°	563	541	538
80°	411	391	408
85°	233	215	218

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 868 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	3.4
10°-20°	182.2	9.7
20°-30°	277.9	14.8
30°-40°	336.6	17.9
40°-50°	349.7	18.6
50°-60°	312.8	16.6
60°-70°	228.0	12.1
70°-80°	112.9	6.0
80°-90°	20.2	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°	523.3	27.8
0°-40°	860.0	45.7
0°-60°	1522.5	80.8
0°-90°	1883.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1883.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	665	666	665	665	665	63
15°	646	645	645	646	645	182
25°	604	603	603	603	602	278
35°	540	539	538	538	537	338
45°	456	455	453	452	452	351
55°	354	352	349	349	349	316
65°	234	232	229	230	229	232
75°	108	107	104	106	104	115
85°	15	14	14	14	14	21
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	666.4	666.4	666.4	666.4	666.4
2.5°	666.4	666.2	666.2	666.4	666.0
5°	665.2	665.5	665.2	665.2	664.8
7.5°	662.6	662.4	662.1	662.4	661.6
10°	658.1	658.1	657.8	658.1	657.6
12.5°	652.6	652.6	652.6	652.8	652.6
15°	645.6	645.4	645.4	645.9	645.4
17.5°	637.5	637.3	637.3	637.0	636.5
20°	627.5	627.5	627.2	627.0	626.3
22.5°	616.7	616.5	615.7	615.7	614.8
25°	604.0	603.3	602.8	602.6	601.9
27.5°	590.1	589.2	588.5	588.0	587.3
30°	574.6	573.7	572.9	572.2	571.7
32.5°	557.9	557.4	556.2	556.0	555.0
35°	539.9	539.2	538.5	537.5	536.6
37.5°	520.8	520.1	518.4	517.9	517.2
40°	500.5	499.5	497.4	497.4	496.7
42.5°	478.7	477.8	476.3	475.4	474.9
45°	456.0	455.0	453.4	452.4	451.9
47.5°	431.9	431.1	429.2	428.5	427.8
50°	406.7	405.8	403.6	403.2	402.4
52.5°	380.4	380.0	377.1	376.9	376.1
55°	354.4	351.7	349.4	349.4	348.9
57.5°	325.7	323.8	320.7	320.7	320.2
60°	296.0	294.4	290.8	291.2	290.8
62.5°	267.1	263.5	260.2	261.6	260.4
65°	234.1	232.2	228.6	229.6	229.3
67.5°	204.0	200.4	197.0	198.9	198.0
70°	170.5	168.6	165.2	167.1	164.8
72.5°	138.9	137.3	133.9	136.1	133.7
75°	108.3	106.6	104.0	105.9	103.5
77.5°	79.4	78.2	75.8	77.7	78.2
80°	53.1	51.7	50.5	52.1	52.6
82.5°	31.1	30.1	29.7	29.9	31.1
85°	15.1	13.9	13.9	14.1	14.1
87.5°	4.1	3.6	4.1	4.3	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)