

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: P974681

Luminaire Tested: FLR2-24-20HE-L835-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974681
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

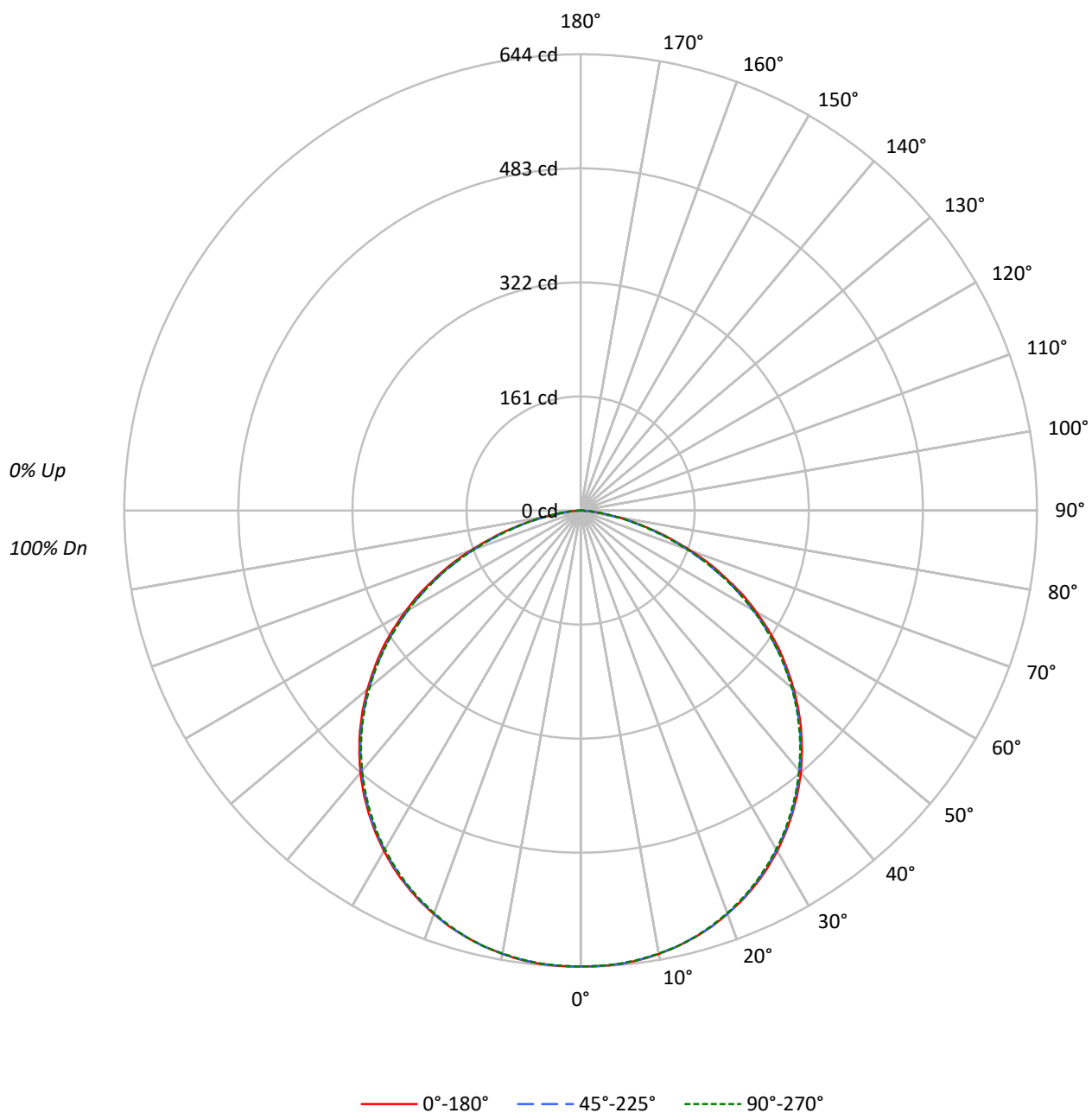
Lumens per Lamp: N/A
Luminaire Lumens: 1819.1 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	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	39	33	29	27		
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	866	866	866
5°	868	868	867
10°	868	868	868
15°	869	868	868
20°	868	867	866
25°	866	864	863
30°	862	860	858
35°	857	854	851
40°	849	844	843
45°	838	833	831
50°	822	816	814
55°	803	791	790
60°	769	756	756
65°	720	703	705
70°	648	628	626
75°	544	522	520
80°	397	377	394
85°	224	207	210

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 838 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	3.4
10°-20°	176.0	9.7
20°-30°	268.3	14.8
30°-40°	325.1	17.9
40°-50°	337.7	18.6
50°-60°	302.1	16.6
60°-70°	220.2	12.1
70°-80°	109.0	6.0
80°-90°	19.5	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°	505.4	27.8
0°-40°	830.6	45.7
0°-60°	1470.4	80.8
0°-90°	1819.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1819.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	644	644	644	644	644	
5°	642	643	642	642	642	61
15°	624	623	623	624	623	176
25°	583	583	582	582	581	269
35°	522	521	520	519	518	326
45°	440	440	438	437	436	339
55°	342	340	337	337	337	305
65°	226	224	221	222	222	224
75°	105	103	100	102	100	112
85°	14	13	13	14	14	20
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	643.6	643.6	643.6	643.6	643.6
2.5°	643.6	643.4	643.4	643.6	643.2
5°	642.5	642.7	642.5	642.5	642.0
7.5°	639.9	639.7	639.5	639.7	639.0
10°	635.6	635.6	635.3	635.6	635.1
12.5°	630.2	630.2	630.2	630.5	630.2
15°	623.5	623.3	623.3	623.8	623.3
17.5°	615.7	615.5	615.5	615.2	614.8
20°	606.0	606.0	605.8	605.5	604.8
22.5°	595.6	595.4	594.7	594.7	593.8
25°	583.4	582.7	582.2	582.0	581.3
27.5°	570.0	569.0	568.3	567.9	567.2
30°	555.0	554.0	553.3	552.6	552.2
32.5°	538.8	538.3	537.2	536.9	536.0
35°	521.5	520.8	520.1	519.2	518.2
37.5°	503.0	502.3	500.7	500.2	499.5
40°	483.4	482.4	480.4	480.4	479.7
42.5°	462.3	461.4	460.0	459.1	458.7
45°	440.4	439.5	437.9	436.9	436.5
47.5°	417.1	416.4	414.5	413.8	413.2
50°	392.8	391.9	389.8	389.4	388.7
52.5°	367.4	367.0	364.2	364.0	363.3
55°	342.3	339.7	337.4	337.4	336.9
57.5°	314.5	312.7	309.7	309.7	309.2
60°	285.9	284.3	280.8	281.3	280.8
62.5°	258.0	254.5	251.3	252.7	251.5
65°	226.1	224.2	220.8	221.7	221.5
67.5°	197.0	193.5	190.3	192.1	191.2
70°	164.7	162.8	159.6	161.4	159.1
72.5°	134.2	132.6	129.3	131.4	129.1
75°	104.6	103.0	100.5	102.3	100.0
77.5°	76.7	75.5	73.2	75.1	75.5
80°	51.3	49.9	48.7	50.3	50.8
82.5°	30.0	29.1	28.6	28.9	30.0
85°	14.5	13.4	13.4	13.6	13.6
87.5°	3.9	3.5	3.9	4.2	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)