

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: P974549

Luminaire Tested: FLR2-24-20HE-L830-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974549
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-L830-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

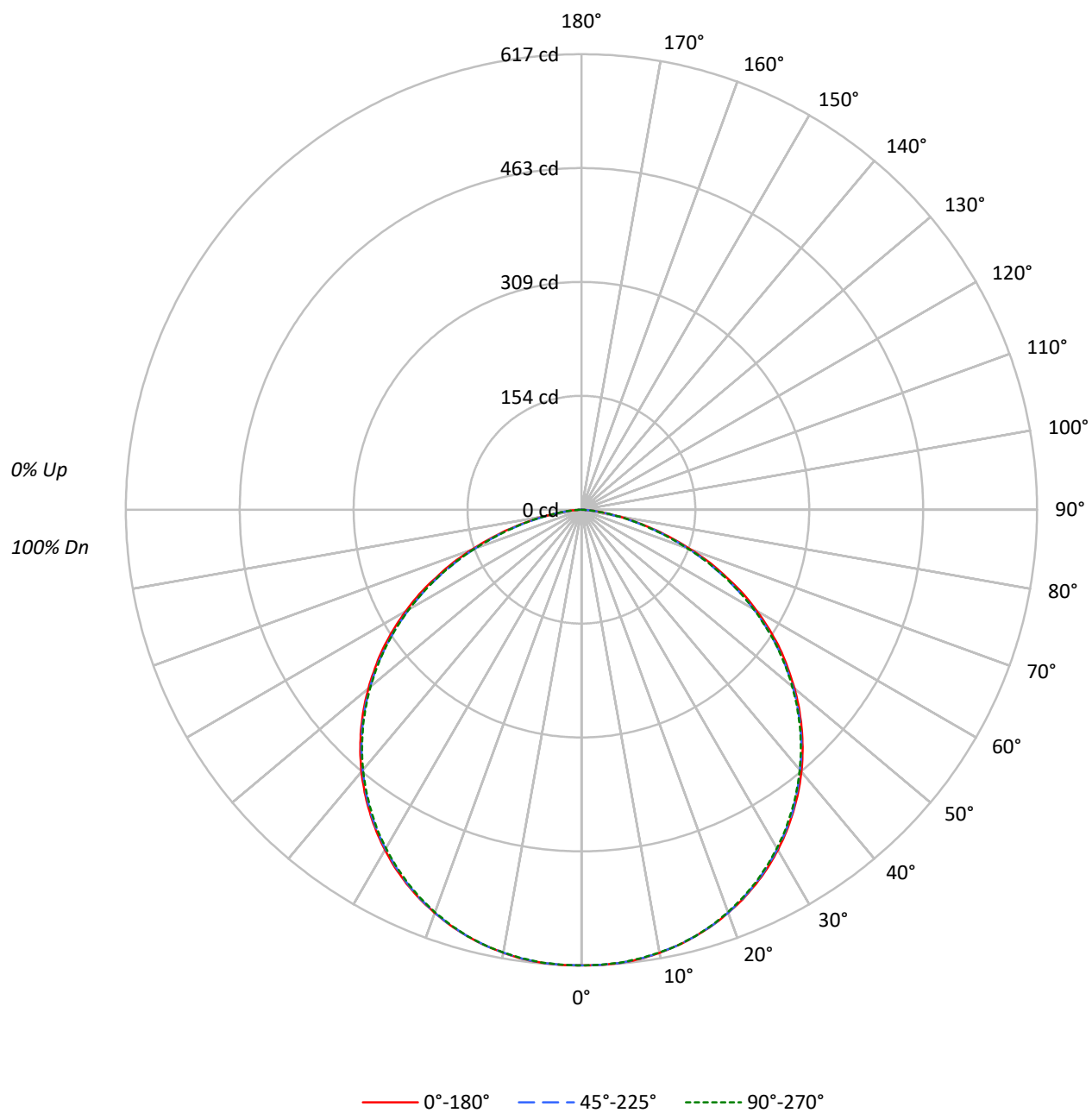
Lumens per Lamp: N/A
Luminaire Lumens: 1744.4 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	830	830	830
5°	832	832	831
10°	833	832	832
15°	833	833	833
20°	832	832	830
25°	830	829	828
30°	827	824	823
35°	821	819	816
40°	814	809	808
45°	804	799	797
50°	789	782	780
55°	770	759	758
60°	738	725	725
65°	690	674	676
70°	621	602	600
75°	521	501	499
80°	381	362	377
85°	216	198	202

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 804 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	3.4
10°-20°	168.8	9.7
20°-30°	257.3	14.8
30°-40°	311.8	17.9
40°-50°	323.8	18.6
50°-60°	289.7	16.6
60°-70°	211.1	12.1
70°-80°	104.6	6.0
80°-90°	18.7	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°	484.7	27.8
0°-40°	796.5	45.7
0°-60°	1410.0	80.8
0°-90°	1744.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1744.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	617	617	617	617	617	
5°	616	616	616	616	616	59
15°	598	598	598	598	598	169
25°	559	559	558	558	557	258
35°	500	499	499	498	497	313
45°	422	421	420	419	419	325
55°	328	326	324	324	323	292
65°	217	215	212	213	212	215
75°	100	99	96	98	96	107
85°	14	13	13	13	13	19
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	617.2	617.2	617.2	617.2	617.2
2.5°	617.2	617.0	617.0	617.2	616.8
5°	616.1	616.3	616.1	616.1	615.6
7.5°	613.7	613.4	613.2	613.4	612.8
10°	609.4	609.4	609.2	609.4	609.0
12.5°	604.4	604.4	604.4	604.6	604.4
15°	597.9	597.7	597.7	598.2	597.7
17.5°	590.4	590.2	590.2	590.0	589.5
20°	581.1	581.1	580.9	580.7	580.0
22.5°	571.1	570.9	570.3	570.3	569.4
25°	559.4	558.7	558.3	558.1	557.4
27.5°	546.6	545.7	545.0	544.6	543.9
30°	532.2	531.3	530.6	529.9	529.5
32.5°	516.7	516.2	515.1	514.9	514.0
35°	500.0	499.4	498.7	497.8	496.9
37.5°	482.3	481.7	480.1	479.7	479.0
40°	463.5	462.6	460.6	460.6	460.0
42.5°	443.4	442.5	441.1	440.3	439.8
45°	422.3	421.4	419.9	419.0	418.6
47.5°	400.0	399.3	397.5	396.8	396.2
50°	376.7	375.8	373.8	373.4	372.7
52.5°	352.3	351.9	349.2	349.0	348.4
55°	328.2	325.8	323.5	323.5	323.1
57.5°	301.6	299.9	297.0	297.0	296.5
60°	274.2	272.6	269.3	269.7	269.3
62.5°	247.4	244.0	240.9	242.3	241.2
65°	216.8	215.0	211.7	212.6	212.4
67.5°	188.9	185.6	182.5	184.3	183.4
70°	157.9	156.1	153.0	154.8	152.6
72.5°	128.7	127.1	124.0	126.0	123.8
75°	100.3	98.8	96.3	98.1	95.9
77.5°	73.5	72.4	70.2	72.0	72.4
80°	49.2	47.8	46.7	48.3	48.7
82.5°	28.8	27.9	27.5	27.7	28.8
85°	14.0	12.8	12.8	13.1	13.1
87.5°	3.8	3.3	3.8	4.0	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)