

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: P974803

Luminaire Tested: FLR2-24-30HE-L935-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974803
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: FLR2-24-30HE-L935-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

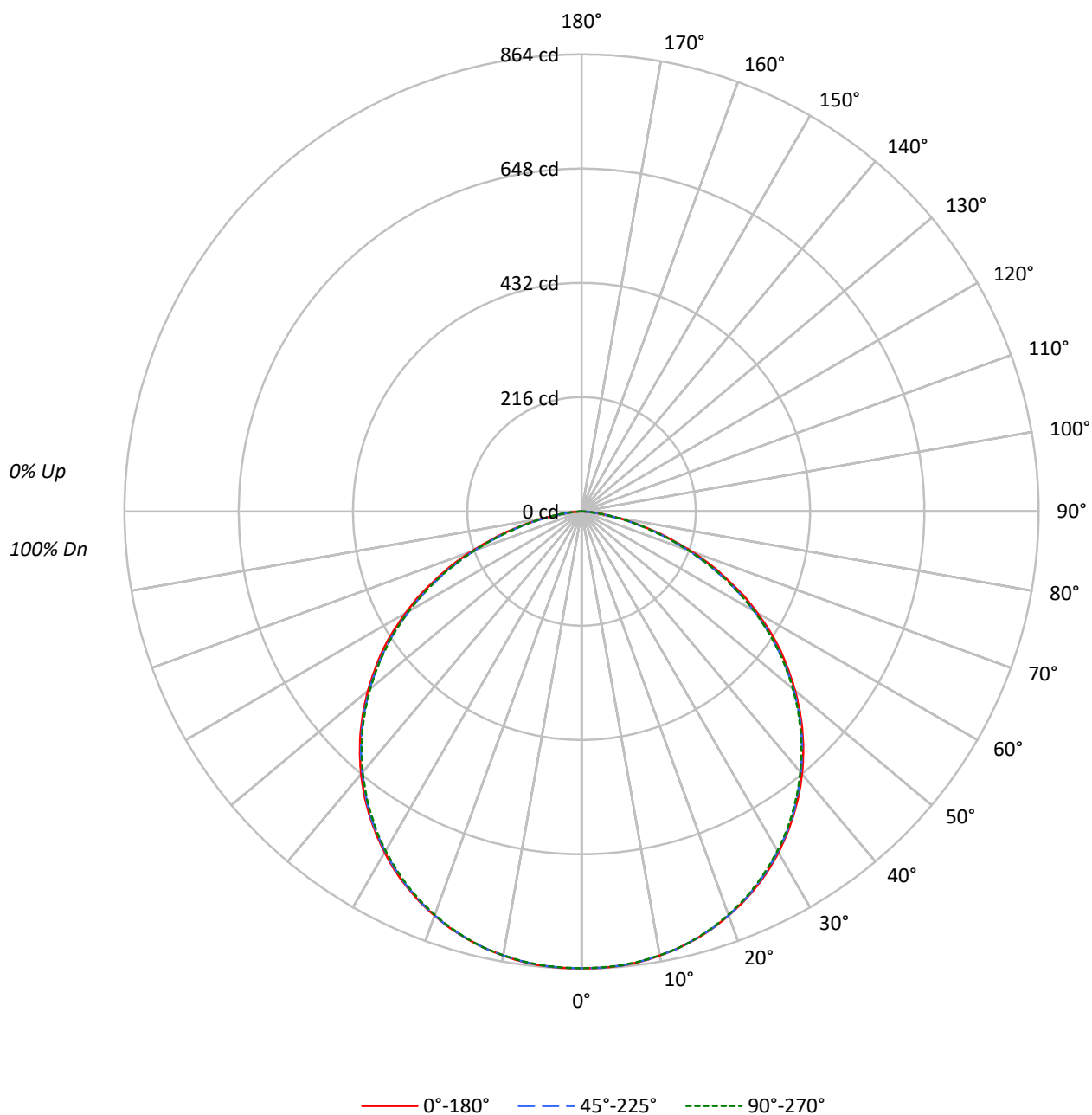
Lumens per Lamp: N/A
Luminaire Lumens: 2440.5 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 21.9
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°	1162	1162	1162
5°	1164	1164	1163
10°	1165	1164	1164
15°	1165	1165	1165
20°	1164	1164	1162
25°	1162	1160	1158
30°	1157	1153	1151
35°	1149	1146	1142
40°	1139	1132	1130
45°	1124	1118	1114
50°	1103	1095	1091
55°	1077	1062	1060
60°	1032	1014	1014
65°	966	943	946
70°	869	842	840
75°	730	701	698
80°	533	507	528
85°	301	278	283

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1124 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	3.4
10°-20°	236.1	9.7
20°-30°	360.0	14.8
30°-40°	436.2	17.9
40°-50°	453.1	18.6
50°-60°	405.3	16.6
60°-70°	295.4	12.1
70°-80°	146.3	6.0
80°-90°	26.2	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°	678.1	27.8
0°-40°	1114.3	45.7
0°-60°	1972.7	80.8
0°-90°	2440.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2440.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	864	864	864	864	864	
5°	862	862	862	862	861	82
15°	836	836	836	837	836	236
25°	783	782	781	781	780	361
35°	700	699	698	696	695	438
45°	591	590	587	586	586	455
55°	459	456	453	453	452	409
65°	303	301	296	297	297	301
75°	140	138	135	137	134	150
85°	20	18	18	18	18	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	863.5	863.5	863.5	863.5	863.5
2.5°	863.5	863.2	863.2	863.5	862.9
5°	861.9	862.3	861.9	861.9	861.3
7.5°	858.5	858.2	857.9	858.2	857.3
10°	852.6	852.6	852.3	852.6	852.0
12.5°	845.5	845.5	845.5	845.8	845.5
15°	836.5	836.2	836.2	836.8	836.2
17.5°	826.0	825.7	825.7	825.4	824.8
20°	813.0	813.0	812.7	812.4	811.4
22.5°	799.0	798.7	797.8	797.8	796.6
25°	782.6	781.7	781.1	780.8	779.8
27.5°	764.7	763.4	762.5	761.9	760.9
30°	744.5	743.3	742.3	741.4	740.8
32.5°	722.8	722.2	720.7	720.4	719.1
35°	699.6	698.7	697.7	696.5	695.3
37.5°	674.8	673.9	671.7	671.1	670.2
40°	648.5	647.2	644.4	644.4	643.5
42.5°	620.3	619.0	617.2	615.9	615.3
45°	590.8	589.6	587.4	586.2	585.6
47.5°	559.5	558.6	556.1	555.2	554.3
50°	527.0	525.8	523.0	522.4	521.4
52.5°	492.9	492.3	488.6	488.3	487.4
55°	459.2	455.8	452.7	452.7	452.0
57.5°	422.0	419.5	415.5	415.5	414.9
60°	383.6	381.4	376.8	377.4	376.8
62.5°	346.1	341.4	337.1	339.0	337.4
65°	303.3	300.8	296.2	297.4	297.1
67.5°	264.3	259.6	255.3	257.8	256.5
70°	220.9	218.4	214.1	216.6	213.5
72.5°	180.0	177.8	173.5	176.3	173.2
75°	140.4	138.2	134.8	137.3	134.2
77.5°	102.9	101.3	98.2	100.7	101.3
80°	68.8	66.9	65.4	67.5	68.2
82.5°	40.3	39.0	38.4	38.7	40.3
85°	19.5	18.0	18.0	18.3	18.3
87.5°	5.3	4.6	5.3	5.6	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)