

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: P974528

Luminaire Tested: FLR2-24-30HE-L830-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974528
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-L830-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

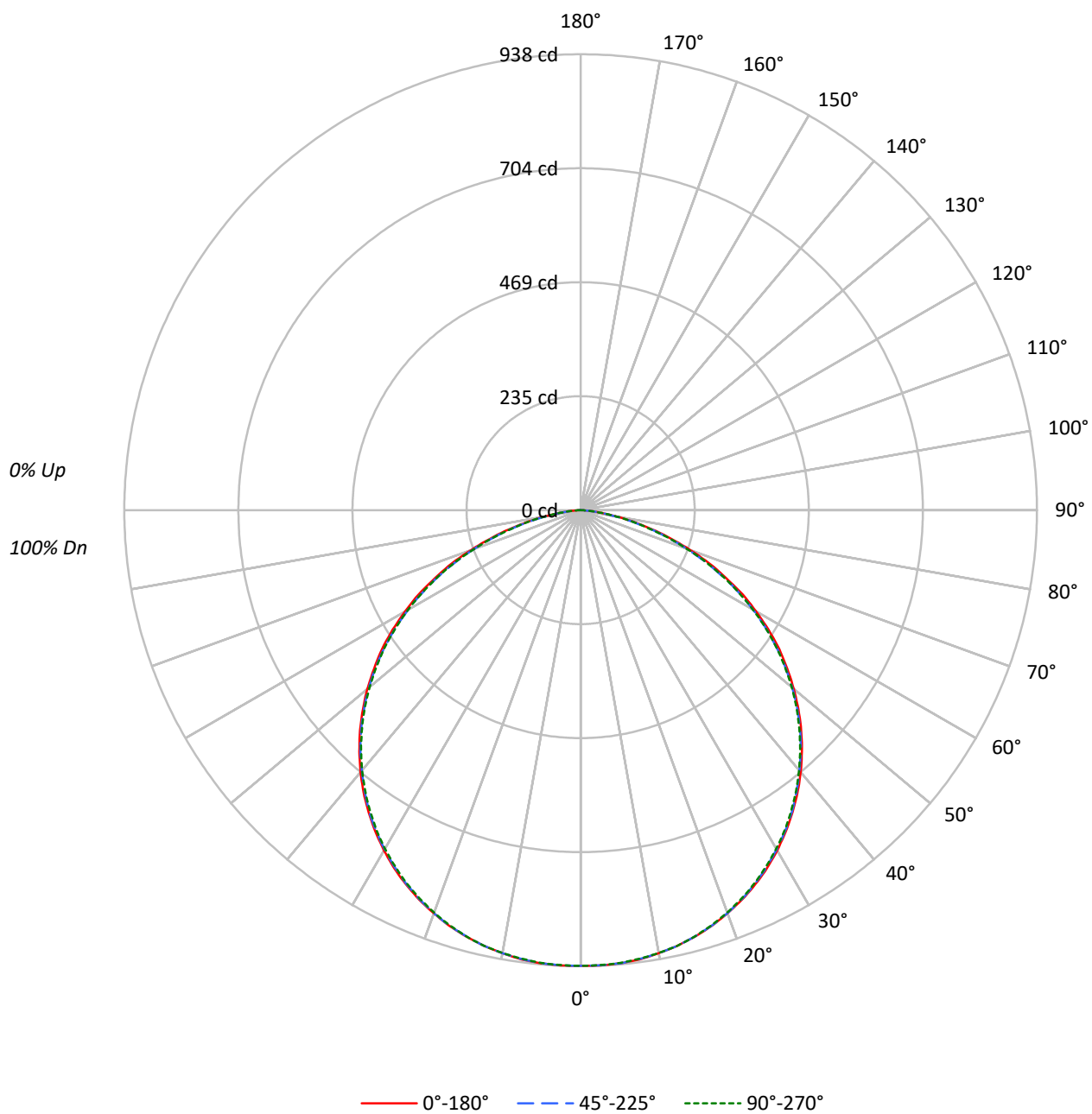
Lumens per Lamp: N/A
Luminaire Lumens: 2649.6 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1261	1261	1261
5°	1264	1264	1263
10°	1265	1264	1264
15°	1265	1265	1265
20°	1264	1263	1261
25°	1261	1259	1257
30°	1256	1252	1250
35°	1248	1244	1240
40°	1237	1229	1227
45°	1221	1214	1210
50°	1198	1189	1185
55°	1169	1153	1151
60°	1121	1101	1101
65°	1048	1024	1027
70°	943	914	912
75°	792	761	757
80°	579	550	573
85°	327	301	306

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1221 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	3.4
10°-20°	256.4	9.7
20°-30°	390.9	14.8
30°-40°	473.6	17.9
40°-50°	491.9	18.6
50°-60°	440.0	16.6
60°-70°	320.7	12.1
70°-80°	158.8	6.0
80°-90°	28.4	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°	736.2	27.8
0°-40°	1209.7	45.7
0°-60°	2141.7	80.8
0°-90°	2649.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2649.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	938	938	938	938	938	
5°	936	936	936	936	935	89
15°	908	908	908	908	908	256
25°	850	849	848	848	847	392
35°	760	758	758	756	755	475
45°	642	640	638	636	636	494
55°	498	495	491	491	491	444
65°	329	327	322	323	323	326
75°	152	150	146	149	146	162
85°	21	20	20	20	20	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	937.5	937.5	937.5	937.5	937.5
2.5°	937.5	937.1	937.1	937.5	936.8
5°	935.8	936.1	935.8	935.8	935.1
7.5°	932.1	931.8	931.4	931.8	930.7
10°	925.7	925.7	925.4	925.7	925.0
12.5°	918.0	918.0	918.0	918.3	918.0
15°	908.2	907.9	907.9	908.5	907.9
17.5°	896.8	896.4	896.4	896.1	895.4
20°	882.6	882.6	882.3	882.0	881.0
22.5°	867.5	867.2	866.2	866.2	864.8
25°	849.7	848.7	848.0	847.7	846.7
27.5°	830.2	828.8	827.8	827.1	826.1
30°	808.3	807.0	806.0	804.9	804.3
32.5°	784.8	784.1	782.4	782.1	780.7
35°	759.5	758.5	757.5	756.2	754.8
37.5°	732.6	731.6	729.3	728.6	727.6
40°	704.0	702.7	699.7	699.7	698.6
42.5°	673.4	672.1	670.1	668.7	668.0
45°	641.5	640.1	637.8	636.4	635.7
47.5°	607.5	606.5	603.8	602.8	601.8
50°	572.2	570.8	567.8	567.1	566.1
52.5°	535.2	534.5	530.5	530.1	529.1
55°	498.5	494.8	491.4	491.4	490.8
57.5°	458.1	455.5	451.1	451.1	450.4
60°	416.4	414.1	409.0	409.7	409.0
62.5°	375.7	370.7	366.0	368.0	366.3
65°	329.3	326.6	321.6	322.9	322.6
67.5°	286.9	281.9	277.2	279.9	278.5
70°	239.8	237.1	232.4	235.1	231.8
72.5°	195.4	193.1	188.4	191.4	188.0
75°	152.4	150.0	146.3	149.0	145.6
77.5°	111.7	110.0	106.6	109.3	110.0
80°	74.7	72.7	71.0	73.3	74.0
82.5°	43.7	42.4	41.7	42.0	43.7
85°	21.2	19.5	19.5	19.8	19.8
87.5°	5.7	5.0	5.7	6.1	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)