

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: P974539

Luminaire Tested: FLR2-24-30HE-L830-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974539
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

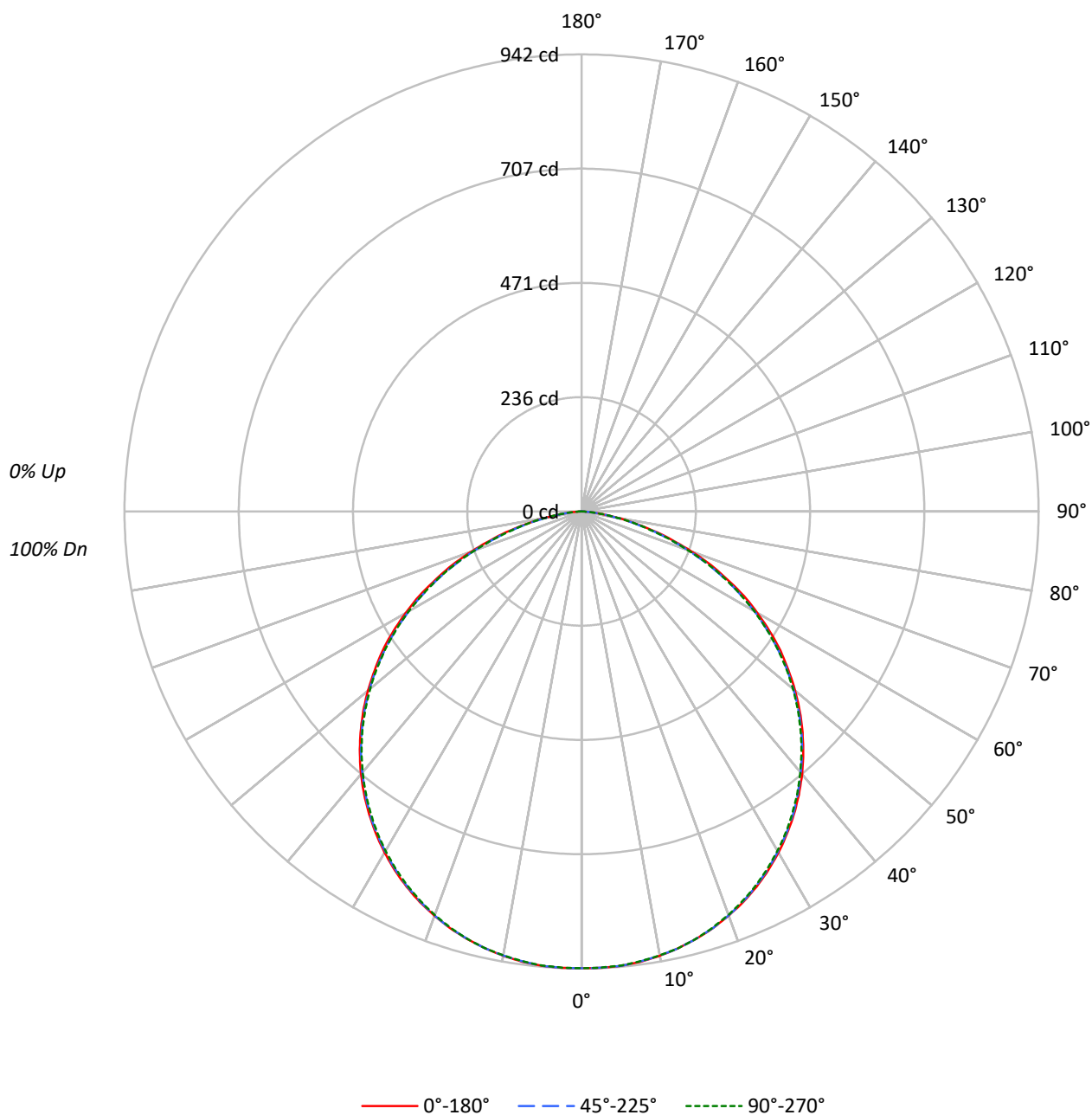
Lumens per Lamp: N/A
Luminaire Lumens: 2661.3 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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		
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°	1267	1267	1267
5°	1269	1269	1269
10°	1270	1270	1269
15°	1271	1270	1270
20°	1269	1269	1267
25°	1267	1265	1262
30°	1261	1258	1255
35°	1253	1250	1245
40°	1242	1234	1232
45°	1226	1219	1215
50°	1203	1194	1190
55°	1175	1158	1156
60°	1126	1105	1105
65°	1053	1028	1032
70°	948	919	916
75°	796	764	761
80°	581	552	576
85°	329	303	307

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1226 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	3.4
10°-20°	257.5	9.7
20°-30°	392.6	14.8
30°-40°	475.7	17.9
40°-50°	494.1	18.6
50°-60°	442.0	16.6
60°-70°	322.1	12.1
70°-80°	159.5	6.0
80°-90°	28.5	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°	739.5	27.8
0°-40°	1215.1	45.7
0°-60°	2151.2	80.8
0°-90°	2661.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2661.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	942	942	942	942	942	
5°	940	940	940	940	939	89
15°	912	912	912	913	912	258
25°	853	852	852	851	850	393
35°	763	762	761	760	758	477
45°	644	643	641	639	639	497
55°	501	497	494	494	493	446
65°	331	328	323	324	324	328
75°	153	151	147	150	146	163
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°	941.6	941.6	941.6	941.6	941.6
2.5°	941.6	941.3	941.3	941.6	941.0
5°	939.9	940.3	939.9	939.9	939.3
7.5°	936.2	935.9	935.5	935.9	934.9
10°	929.8	929.8	929.5	929.8	929.1
12.5°	922.0	922.0	922.0	922.4	922.0
15°	912.2	911.9	911.9	912.6	911.9
17.5°	900.7	900.4	900.4	900.1	899.4
20°	886.6	886.6	886.2	885.9	884.9
22.5°	871.4	871.0	870.0	870.0	868.6
25°	853.4	852.4	851.8	851.4	850.4
27.5°	833.8	832.5	831.5	830.8	829.8
30°	811.9	810.5	809.5	808.5	807.8
32.5°	788.2	787.6	785.9	785.5	784.2
35°	762.9	761.9	760.9	759.5	758.2
37.5°	735.9	734.9	732.5	731.8	730.8
40°	707.1	705.8	702.8	702.8	701.7
42.5°	676.4	675.1	673.0	671.7	671.0
45°	644.3	643.0	640.6	639.2	638.6
47.5°	610.2	609.2	606.5	605.5	604.4
50°	574.7	573.4	570.3	569.6	568.6
52.5°	537.5	536.9	532.8	532.5	531.5
55°	500.7	497.0	493.6	493.6	492.9
57.5°	460.2	457.5	453.1	453.1	452.4
60°	418.3	415.9	410.8	411.5	410.8
62.5°	377.4	372.3	367.6	369.6	367.9
65°	330.8	328.1	323.0	324.3	324.0
67.5°	288.2	283.1	278.4	281.1	279.8
70°	240.9	238.2	233.5	236.2	232.8
72.5°	196.3	193.9	189.2	192.2	188.9
75°	153.1	150.7	147.0	149.7	146.3
77.5°	112.2	110.5	107.1	109.8	110.5
80°	75.0	73.0	71.3	73.7	74.3
82.5°	43.9	42.6	41.9	42.2	43.9
85°	21.3	19.6	19.6	19.9	19.9
87.5°	5.7	5.1	5.7	6.1	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)