

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: P974990

Luminaire Tested: FLR2-24-30HE-L850-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974990
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-L850-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

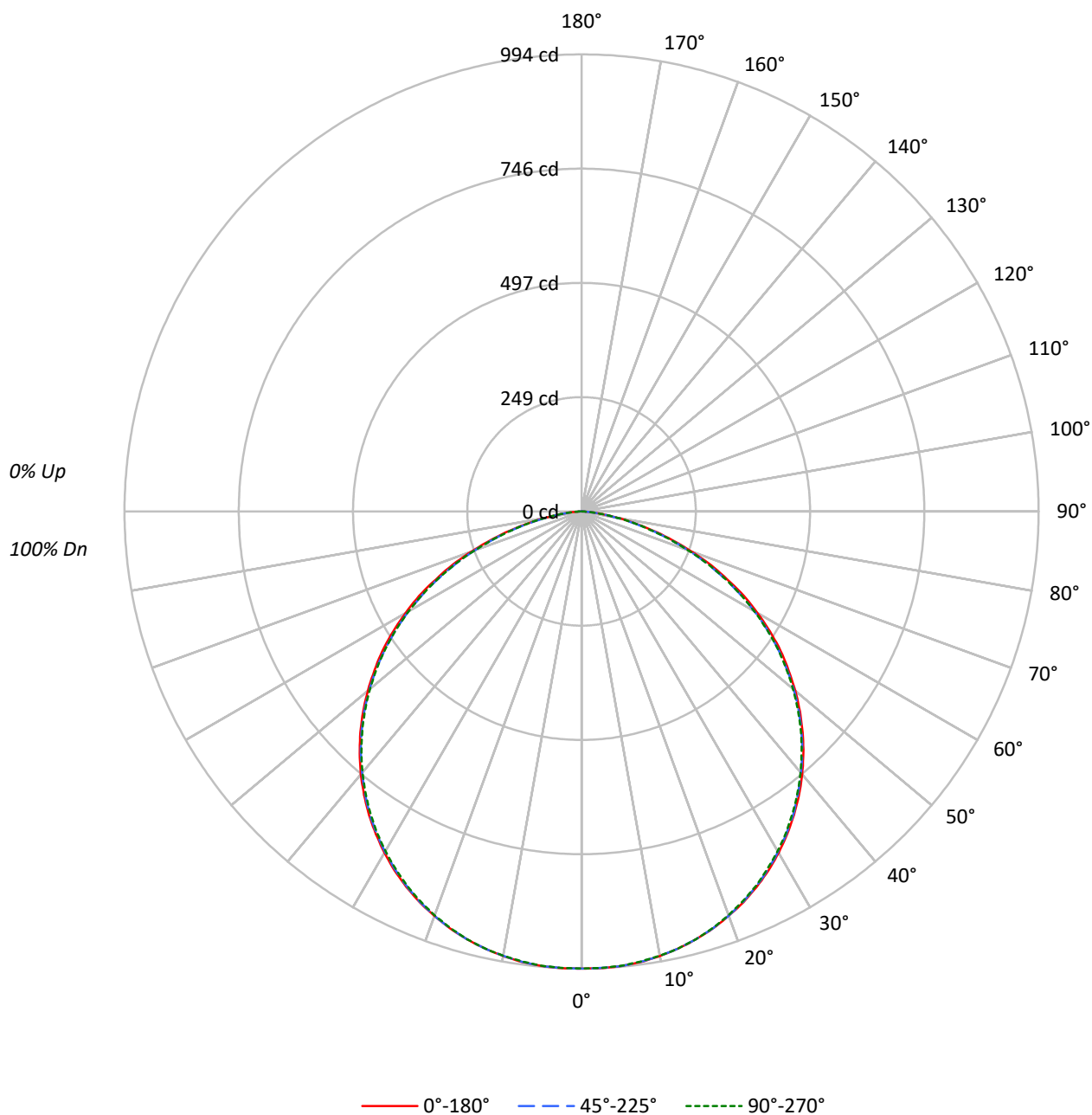
Lumens per Lamp: N/A
Luminaire Lumens: 2810.2 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1338	1338	1338
5°	1340	1340	1340
10°	1341	1341	1340
15°	1342	1341	1341
20°	1340	1340	1338
25°	1338	1335	1333
30°	1332	1328	1325
35°	1323	1320	1315
40°	1312	1303	1302
45°	1294	1287	1283
50°	1270	1261	1257
55°	1240	1223	1221
60°	1189	1167	1167
65°	1112	1086	1089
70°	1001	970	967
75°	840	807	803
80°	614	583	608
85°	347	320	324

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1294 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	3.4
10°-20°	271.9	9.7
20°-30°	414.5	14.8
30°-40°	502.3	17.9
40°-50°	521.7	18.6
50°-60°	466.7	16.6
60°-70°	340.1	12.1
70°-80°	168.5	6.0
80°-90°	30.1	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°	780.8	27.8
0°-40°	1283.1	45.7
0°-60°	2271.5	80.8
0°-90°	2810.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2810.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	994	994	994	994	994	
5°	992	993	992	992	992	94
15°	963	963	963	964	963	272
25°	901	900	899	899	898	415
35°	806	804	803	802	801	504
45°	680	679	676	675	674	524
55°	529	525	521	521	520	471
65°	349	346	341	342	342	346
75°	162	159	155	158	154	172
85°	22	21	21	21	21	31
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	994.3	994.3	994.3	994.3	994.3
2.5°	994.3	993.9	993.9	994.3	993.6
5°	992.5	992.9	992.5	992.5	991.8
7.5°	988.6	988.2	987.9	988.2	987.2
10°	981.8	981.8	981.4	981.8	981.1
12.5°	973.6	973.6	973.6	974.0	973.6
15°	963.3	962.9	962.9	963.6	962.9
17.5°	951.1	950.8	950.8	950.4	949.7
20°	936.1	936.1	935.8	935.4	934.4
22.5°	920.1	919.7	918.7	918.7	917.2
25°	901.2	900.1	899.4	899.0	898.0
27.5°	880.5	879.1	878.0	877.3	876.2
30°	857.3	855.9	854.8	853.7	853.0
32.5°	832.3	831.6	829.8	829.5	828.0
35°	805.6	804.5	803.4	802.0	800.6
37.5°	777.0	776.0	773.5	772.7	771.7
40°	746.7	745.3	742.1	742.1	741.0
42.5°	714.2	712.8	710.7	709.2	708.5
45°	680.3	678.9	676.4	675.0	674.3
47.5°	644.3	643.2	640.4	639.3	638.2
50°	606.8	605.4	602.2	601.5	600.4
52.5°	567.6	566.9	562.6	562.3	561.2
55°	528.7	524.8	521.2	521.2	520.5
57.5°	485.9	483.1	478.4	478.4	477.7
60°	441.7	439.2	433.8	434.5	433.8
62.5°	398.5	393.1	388.2	390.3	388.5
65°	349.3	346.4	341.1	342.5	342.1
67.5°	304.3	299.0	294.0	296.8	295.4
70°	254.4	251.5	246.5	249.4	245.8
72.5°	207.3	204.8	199.8	203.0	199.4
75°	161.6	159.1	155.2	158.0	154.5
77.5°	118.4	116.7	113.1	115.9	116.7
80°	79.2	77.1	75.3	77.8	78.5
82.5°	46.4	45.0	44.2	44.6	46.4
85°	22.5	20.7	20.7	21.0	21.0
87.5°	6.1	5.4	6.1	6.4	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)