

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: P975012

Luminaire Tested: FLR2-24-30HE-L850-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975012
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-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

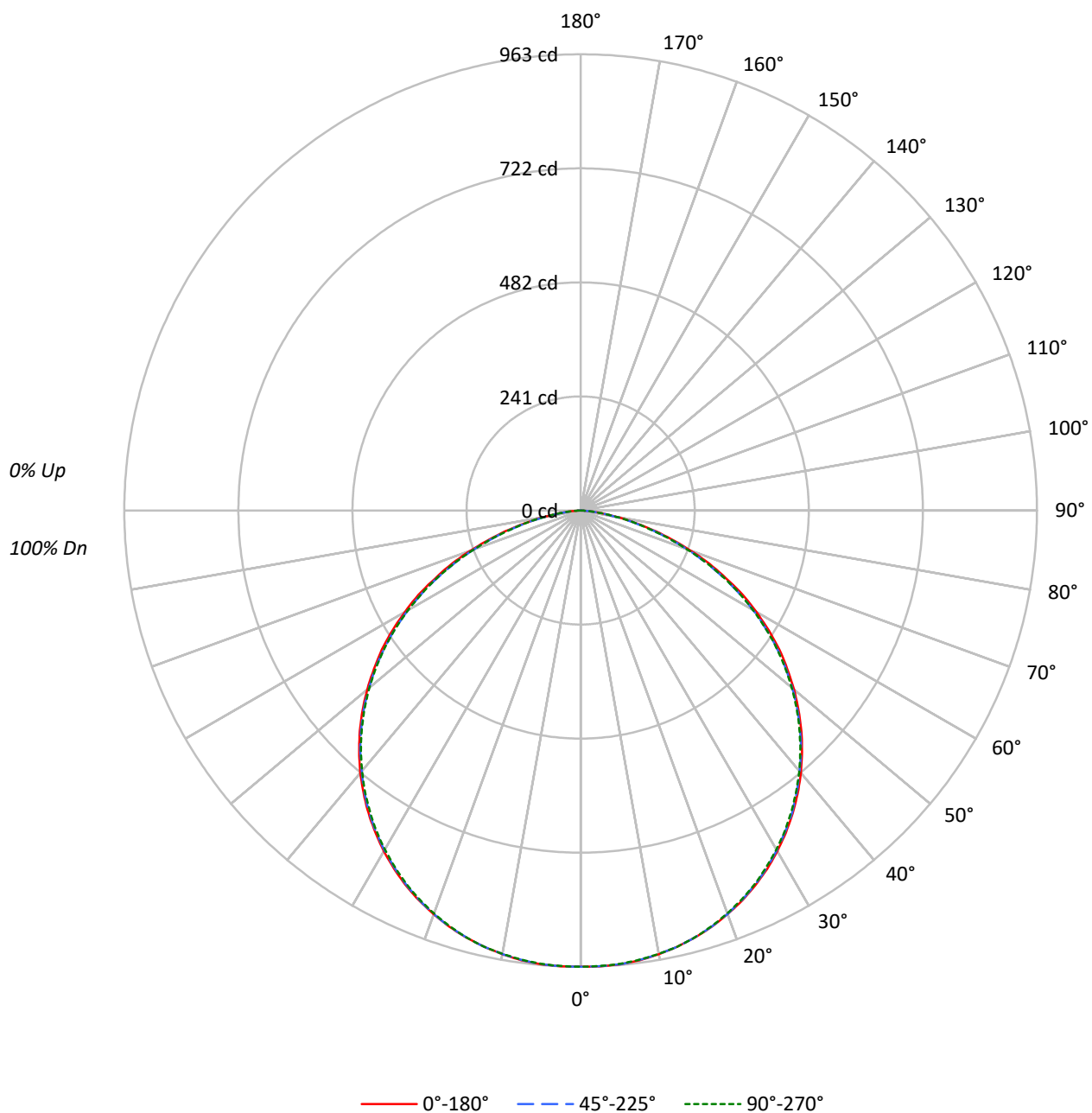
Lumens per Lamp: N/A
Luminaire Lumens: 2721.9 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	105	100	97	106	102	99	95	98	95	92		94	92	89		85
2	99	91	85	79	97	89	83	78	86	81	76		83	78	75		71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		51
5	76	64	55	48	74	62	54	48	60	53	47		58	52	47		44
6	70	57	48	42	69	56	48	42	54	47	41		53	46	41		38
7	65	52	43	37	64	51	43	37	49	42	37		48	41	36		34
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		30
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		27
10	53	40	32	27	52	39	32	27	38	31	27		38	31	26		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1296	1296	1296
5°	1298	1298	1298
10°	1299	1299	1298
15°	1300	1299	1299
20°	1298	1298	1296
25°	1296	1293	1291
30°	1290	1286	1284
35°	1282	1278	1274
40°	1270	1263	1261
45°	1254	1247	1243
50°	1230	1221	1217
55°	1201	1184	1183
60°	1151	1131	1131
65°	1077	1052	1055
70°	969	939	937
75°	814	781	778
80°	594	565	589
85°	337	309	315

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1254 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	3.4
10°-20°	263.4	9.7
20°-30°	401.5	14.8
30°-40°	486.5	17.9
40°-50°	505.3	18.6
50°-60°	452.1	16.6
60°-70°	329.5	12.1
70°-80°	163.2	6.0
80°-90°	29.2	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°	756.3	27.8
0°-40°	1242.8	45.7
0°-60°	2200.2	80.8
0°-90°	2721.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2721.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	963	963	963	963	963	
5°	961	962	961	961	961	91
15°	933	933	933	933	933	263
25°	873	872	871	871	870	402
35°	780	779	778	777	775	488
45°	659	658	655	654	653	508
55°	512	508	505	505	504	456
65°	338	336	330	332	331	335
75°	156	154	150	153	150	167
85°	22	20	20	20	20	30
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	963.1	963.1	963.1	963.1	963.1
2.5°	963.1	962.7	962.7	963.1	962.4
5°	961.4	961.7	961.4	961.4	960.7
7.5°	957.6	957.2	956.9	957.2	956.2
10°	951.0	951.0	950.6	951.0	950.3
12.5°	943.0	943.0	943.0	943.4	943.0
15°	933.0	932.7	932.7	933.4	932.7
17.5°	921.3	920.9	920.9	920.6	919.9
20°	906.8	906.8	906.4	906.1	905.0
22.5°	891.2	890.9	889.8	889.8	888.4
25°	872.9	871.9	871.2	870.8	869.8
27.5°	852.8	851.5	850.4	849.7	848.7
30°	830.4	829.0	828.0	826.9	826.2
32.5°	806.2	805.5	803.8	803.4	802.0
35°	780.3	779.2	778.2	776.8	775.4
37.5°	752.6	751.6	749.2	748.5	747.5
40°	723.3	721.9	718.8	718.8	717.7
42.5°	691.8	690.4	688.4	687.0	686.3
45°	659.0	657.6	655.2	653.8	653.1
47.5°	624.1	623.0	620.3	619.2	618.2
50°	587.8	586.4	583.3	582.6	581.6
52.5°	549.8	549.1	545.0	544.6	543.6
55°	512.1	508.3	504.9	504.9	504.2
57.5°	470.7	467.9	463.4	463.4	462.7
60°	427.8	425.4	420.2	420.9	420.2
62.5°	386.0	380.8	376.0	378.0	376.3
65°	338.3	335.5	330.4	331.7	331.4
67.5°	294.8	289.6	284.7	287.5	286.1
70°	246.4	243.6	238.8	241.5	238.1
72.5°	200.8	198.4	193.5	196.6	193.2
75°	156.5	154.1	150.3	153.1	149.6
77.5°	114.7	113.0	109.5	112.3	113.0
80°	76.7	74.6	72.9	75.3	76.0
82.5°	44.9	43.5	42.8	43.2	44.9
85°	21.8	20.0	20.0	20.4	20.4
87.5°	5.9	5.2	5.9	6.2	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)