

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: P974660

Luminaire Tested: FLR2-24-30HE-L835-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974660
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-L835-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

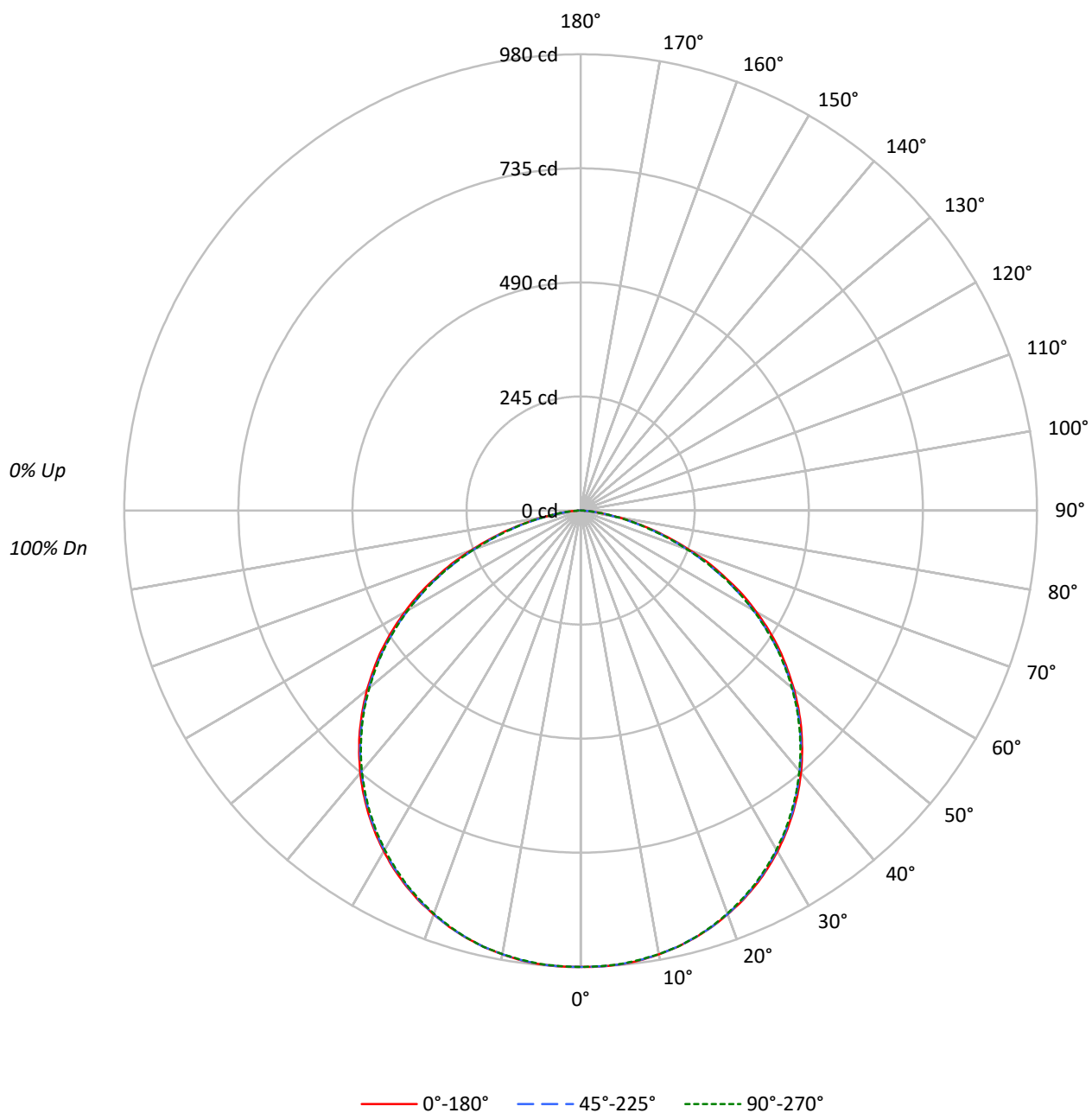
Lumens per Lamp: N/A
Luminaire Lumens: 2771.1 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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		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°	1319	1319	1319
5°	1322	1322	1321
10°	1323	1322	1322
15°	1323	1323	1323
20°	1322	1321	1319
25°	1319	1317	1315
30°	1313	1310	1307
35°	1305	1301	1297
40°	1293	1285	1283
45°	1277	1269	1265
50°	1253	1243	1239
55°	1223	1206	1204
60°	1172	1151	1151
65°	1096	1071	1074
70°	987	956	954
75°	829	795	792
80°	605	575	600
85°	343	315	321

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1277 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.1	3.4
10°-20°	268.1	9.7
20°-30°	408.8	14.8
30°-40°	495.3	17.9
40°-50°	514.5	18.6
50°-60°	460.2	16.6
60°-70°	335.4	12.1
70°-80°	166.1	6.0
80°-90°	29.7	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°	770.0	27.8
0°-40°	1265.2	45.7
0°-60°	2239.9	80.8
0°-90°	2771.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2771.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	980	980	980	980	980	
5°	979	979	979	979	978	93
15°	950	950	950	950	950	268
25°	889	888	887	886	886	410
35°	794	793	792	791	789	497
45°	671	670	667	666	665	517
55°	521	518	514	514	513	465
65°	344	342	336	338	337	341
75°	159	157	153	156	152	170
85°	22	20	20	21	21	31
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	980.5	980.5	980.5	980.5	980.5
2.5°	980.5	980.1	980.1	980.5	979.8
5°	978.7	979.1	978.7	978.7	978.0
7.5°	974.8	974.5	974.1	974.5	973.4
10°	968.2	968.2	967.8	968.2	967.5
12.5°	960.1	960.1	960.1	960.4	960.1
15°	949.9	949.5	949.5	950.2	949.5
17.5°	937.9	937.6	937.6	937.2	936.5
20°	923.1	923.1	922.8	922.4	921.4
22.5°	907.3	907.0	905.9	905.9	904.5
25°	888.7	887.6	886.9	886.5	885.5
27.5°	868.3	866.8	865.8	865.1	864.0
30°	845.4	844.0	842.9	841.9	841.2
32.5°	820.8	820.1	818.3	817.9	816.5
35°	794.4	793.3	792.3	790.9	789.4
37.5°	766.2	765.2	762.7	762.0	761.0
40°	736.3	734.9	731.8	731.8	730.7
42.5°	704.3	702.9	700.8	699.4	698.7
45°	670.9	669.5	667.0	665.6	664.9
47.5°	635.4	634.3	631.5	630.4	629.4
50°	598.4	597.0	593.8	593.1	592.1
52.5°	559.7	559.0	554.8	554.4	553.4
55°	521.4	517.5	514.0	514.0	513.3
57.5°	479.2	476.3	471.8	471.8	471.1
60°	435.5	433.1	427.8	428.5	427.8
62.5°	393.0	387.7	382.8	384.9	383.1
65°	344.4	341.6	336.3	337.7	337.4
67.5°	300.1	294.8	289.9	292.7	291.3
70°	250.8	248.0	243.1	245.9	242.4
72.5°	204.4	201.9	197.0	200.2	196.7
75°	159.4	156.9	153.0	155.8	152.3
77.5°	116.8	115.0	111.5	114.3	115.0
80°	78.1	76.0	74.2	76.7	77.4
82.5°	45.7	44.3	43.6	44.0	45.7
85°	22.2	20.4	20.4	20.8	20.8
87.5°	6.0	5.3	6.0	6.3	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)