

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: P974704

Luminaire Tested: FLR2-24-30HE-L835-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974704
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-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

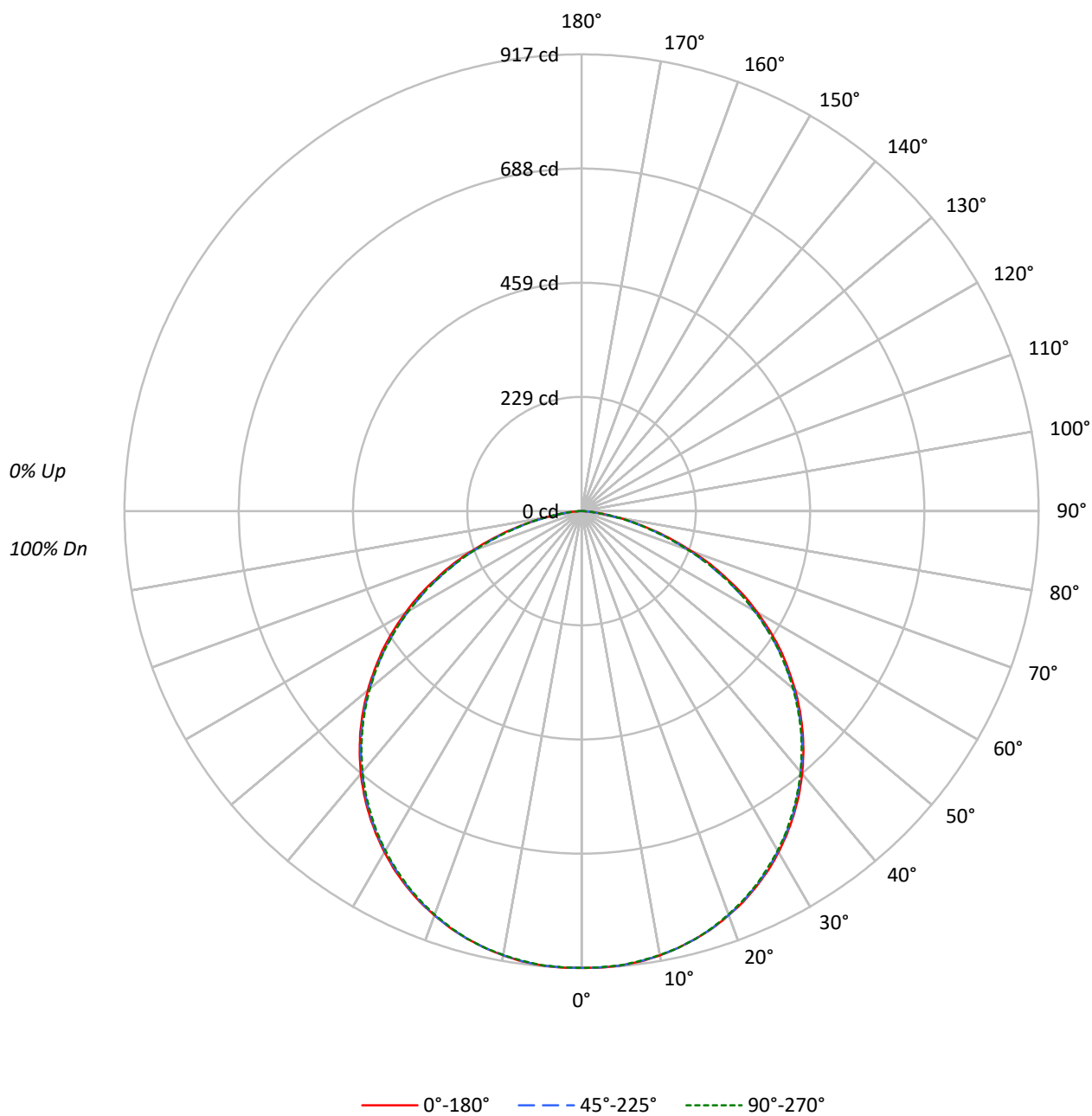
Lumens per Lamp: N/A
Luminaire Lumens: 2592.3 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1234	1234	1234
5°	1237	1237	1236
10°	1237	1237	1236
15°	1238	1237	1237
20°	1237	1236	1234
25°	1234	1232	1230
30°	1229	1225	1223
35°	1221	1217	1213
40°	1210	1202	1201
45°	1194	1187	1184
50°	1172	1163	1159
55°	1144	1128	1126
60°	1096	1077	1077
65°	1026	1002	1005
70°	923	895	892
75°	775	744	741
80°	566	538	561
85°	320	295	299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1194 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	3.4
10°-20°	250.8	9.7
20°-30°	382.4	14.8
30°-40°	463.3	17.9
40°-50°	481.3	18.6
50°-60°	430.5	16.6
60°-70°	313.8	12.1
70°-80°	155.4	6.0
80°-90°	27.8	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°	720.3	27.8
0°-40°	1183.6	45.7
0°-60°	2095.4	80.8
0°-90°	2592.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2592.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	917	917	917	917	917	
5°	916	916	916	916	915	87
15°	889	888	888	889	888	251
25°	831	830	830	829	828	383
35°	743	742	741	740	738	465
45°	628	626	624	623	622	484
55°	488	484	481	481	480	435
65°	322	320	315	316	316	319
75°	149	147	143	146	142	159
85°	21	19	19	19	19	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	917.2	917.2	917.2	917.2	917.2
2.5°	917.2	916.9	916.9	917.2	916.6
5°	915.6	915.9	915.6	915.6	914.9
7.5°	912.0	911.6	911.3	911.6	910.6
10°	905.7	905.7	905.4	905.7	905.0
12.5°	898.1	898.1	898.1	898.5	898.1
15°	888.6	888.3	888.3	888.9	888.3
17.5°	877.4	877.1	877.1	876.7	876.1
20°	863.6	863.6	863.2	862.9	861.9
22.5°	848.8	848.4	847.4	847.4	846.1
25°	831.3	830.3	829.7	829.3	828.4
27.5°	812.2	810.9	809.9	809.3	808.3
30°	790.8	789.5	788.5	787.6	786.9
32.5°	767.8	767.1	765.5	765.2	763.9
35°	743.1	742.1	741.1	739.8	738.5
37.5°	716.8	715.8	713.5	712.8	711.9
40°	688.8	687.5	684.5	684.5	683.6
42.5°	658.9	657.6	655.6	654.3	653.6
45°	627.6	626.3	624.0	622.7	622.0
47.5°	594.4	593.4	590.7	589.8	588.8
50°	559.8	558.5	555.5	554.9	553.9
52.5°	523.6	523.0	519.0	518.7	517.7
55°	487.7	484.1	480.8	480.8	480.2
57.5°	448.2	445.6	441.3	441.3	440.7
60°	407.4	405.1	400.2	400.9	400.2
62.5°	367.6	362.7	358.1	360.0	358.4
65°	322.2	319.6	314.6	315.9	315.6
67.5°	280.7	275.8	271.2	273.8	272.5
70°	234.7	232.0	227.4	230.0	226.8
72.5°	191.2	188.9	184.3	187.3	184.0
75°	149.1	146.8	143.2	145.8	142.5
77.5°	109.3	107.6	104.3	107.0	107.6
80°	73.1	71.1	69.4	71.7	72.4
82.5°	42.8	41.5	40.8	41.1	42.8
85°	20.7	19.1	19.1	19.4	19.4
87.5°	5.6	4.9	5.6	5.9	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)