

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: P974891

Luminaire Tested: FLR2-24-30HE-L940-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974891
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-L940-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

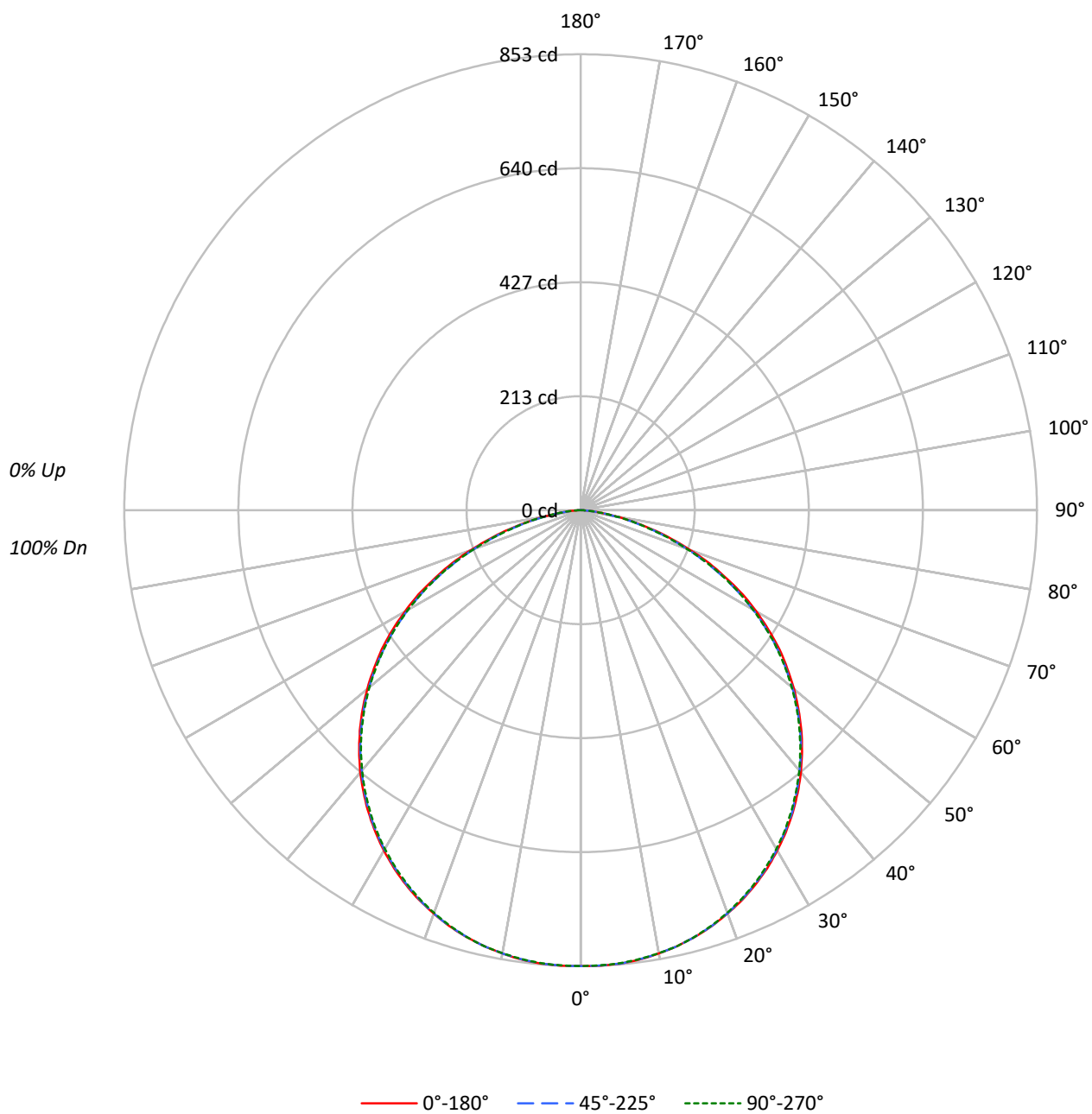
Lumens per Lamp: N/A
Luminaire Lumens: 2410.9 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1148	1148	1148
5°	1150	1150	1149
10°	1151	1150	1150
15°	1151	1151	1151
20°	1150	1149	1148
25°	1148	1146	1144
30°	1143	1139	1137
35°	1135	1132	1128
40°	1125	1118	1117
45°	1111	1104	1101
50°	1090	1081	1078
55°	1064	1049	1048
60°	1020	1002	1002
65°	954	932	934
70°	858	832	830
75°	721	692	689
80°	526	501	521
85°	298	275	279

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1111 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	3.4
10°-20°	233.3	9.7
20°-30°	355.6	14.8
30°-40°	430.9	17.9
40°-50°	447.6	18.6
50°-60°	400.4	16.6
60°-70°	291.8	12.1
70°-80°	144.5	6.0
80°-90°	25.8	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°	669.9	27.8
0°-40°	1100.7	45.7
0°-60°	1948.7	80.8
0°-90°	2410.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2410.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	853	853	853	853	853	
5°	852	852	852	852	851	81
15°	826	826	826	827	826	233
25°	773	772	772	771	770	356
35°	691	690	689	688	687	432
45°	584	582	580	579	578	450
55°	454	450	447	447	447	404
65°	300	297	293	294	294	297
75°	139	136	133	136	132	148
85°	19	18	18	18	18	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	853.0	853.0	853.0	853.0	853.0
2.5°	853.0	852.7	852.7	853.0	852.4
5°	851.5	851.8	851.5	851.5	850.9
7.5°	848.1	847.8	847.5	847.8	846.9
10°	842.3	842.3	842.0	842.3	841.7
12.5°	835.3	835.3	835.3	835.6	835.3
15°	826.4	826.1	826.1	826.7	826.1
17.5°	816.0	815.7	815.7	815.4	814.8
20°	803.1	803.1	802.8	802.5	801.6
22.5°	789.4	789.0	788.1	788.1	786.9
25°	773.1	772.2	771.6	771.3	770.4
27.5°	755.4	754.2	753.2	752.6	751.7
30°	735.5	734.3	733.3	732.4	731.8
32.5°	714.1	713.4	711.9	711.6	710.4
35°	691.1	690.2	689.3	688.0	686.8
37.5°	666.6	665.7	663.6	662.9	662.0
40°	640.6	639.4	636.6	636.6	635.7
42.5°	612.8	611.5	609.7	608.5	607.9
45°	583.7	582.5	580.3	579.1	578.5
47.5°	552.8	551.8	549.4	548.5	547.6
50°	520.6	519.4	516.6	516.0	515.1
52.5°	487.0	486.3	482.7	482.4	481.4
55°	453.6	450.2	447.2	447.2	446.6
57.5°	416.9	414.4	410.4	410.4	409.8
60°	378.9	376.8	372.2	372.8	372.2
62.5°	341.9	337.3	333.0	334.8	333.3
65°	299.6	297.2	292.6	293.8	293.5
67.5°	261.1	256.5	252.2	254.6	253.4
70°	218.2	215.8	211.5	213.9	210.9
72.5°	177.8	175.7	171.4	174.2	171.1
75°	138.6	136.5	133.1	135.6	132.5
77.5°	101.6	100.1	97.0	99.5	100.1
80°	67.9	66.1	64.6	66.7	67.3
82.5°	39.8	38.6	38.0	38.3	39.8
85°	19.3	17.8	17.8	18.1	18.1
87.5°	5.2	4.6	5.2	5.5	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)