

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: P974858

Luminaire Tested: FLR2-24-30HE-L840-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974858
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-L840-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

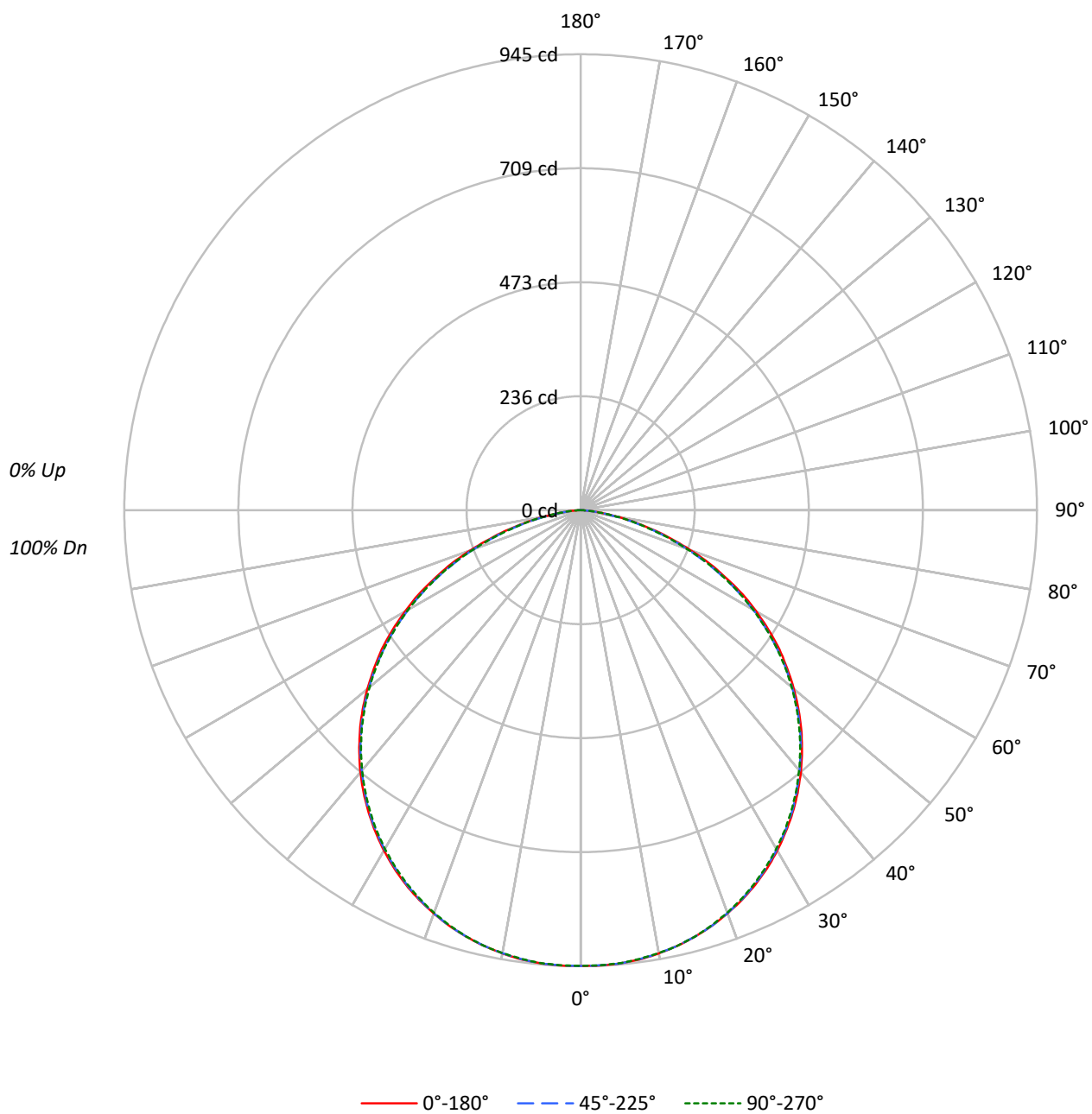
Lumens per Lamp: N/A
Luminaire Lumens: 2670.1 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1271	1271	1271
5°	1274	1274	1273
10°	1275	1274	1274
15°	1275	1274	1274
20°	1274	1273	1271
25°	1271	1269	1267
30°	1266	1262	1259
35°	1257	1254	1249
40°	1246	1238	1237
45°	1230	1223	1219
50°	1207	1198	1194
55°	1179	1162	1160
60°	1129	1109	1109
65°	1057	1032	1035
70°	951	921	919
75°	799	767	763
80°	583	554	578
85°	330	304	309

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1230 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	3.4
10°-20°	258.3	9.7
20°-30°	393.9	14.8
30°-40°	477.2	17.9
40°-50°	495.7	18.6
50°-60°	443.4	16.6
60°-70°	323.2	12.1
70°-80°	160.1	6.0
80°-90°	28.6	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°	741.9	27.8
0°-40°	1219.1	45.7
0°-60°	2158.3	80.8
0°-90°	2670.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2670.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	943	943	943	943	942	90
15°	915	915	915	916	915	258
25°	856	855	855	854	853	395
35°	765	764	763	762	761	479
45°	646	645	643	641	641	498
55°	502	499	495	495	495	448
65°	332	329	324	325	325	329
75°	154	151	148	150	147	164
85°	21	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°	944.7	944.7	944.7	944.7	944.7
2.5°	944.7	944.4	944.4	944.7	944.1
5°	943.0	943.4	943.0	943.0	942.4
7.5°	939.3	939.0	938.6	939.0	938.0
10°	932.9	932.9	932.5	932.9	932.2
12.5°	925.1	925.1	925.1	925.4	925.1
15°	915.2	914.9	914.9	915.6	914.9
17.5°	903.7	903.4	903.4	903.0	902.4
20°	889.5	889.5	889.1	888.8	887.8
22.5°	874.2	873.9	872.9	872.9	871.5
25°	856.3	855.2	854.6	854.2	853.2
27.5°	836.6	835.2	834.2	833.6	832.5
30°	814.6	813.2	812.2	811.2	810.5
32.5°	790.8	790.2	788.5	788.1	786.8
35°	765.4	764.4	763.4	762.0	760.7
37.5°	738.3	737.3	734.9	734.2	733.2
40°	709.5	708.1	705.1	705.1	704.1
42.5°	678.6	677.3	675.2	673.9	673.2
45°	646.4	645.1	642.7	641.4	640.7
47.5°	612.2	611.2	608.5	607.5	606.4
50°	576.6	575.2	572.2	571.5	570.5
52.5°	539.3	538.6	534.6	534.2	533.2
55°	502.4	498.6	495.2	495.2	494.6
57.5°	461.7	459.0	454.6	454.6	453.9
60°	419.7	417.3	412.2	412.9	412.2
62.5°	378.6	373.6	368.8	370.8	369.1
65°	331.9	329.1	324.1	325.4	325.1
67.5°	289.1	284.1	279.3	282.0	280.7
70°	241.7	239.0	234.2	236.9	233.6
72.5°	196.9	194.6	189.8	192.9	189.5
75°	153.6	151.2	147.5	150.2	146.8
77.5°	112.5	110.8	107.5	110.2	110.8
80°	75.3	73.2	71.5	73.9	74.6
82.5°	44.1	42.7	42.0	42.4	44.1
85°	21.4	19.7	19.7	20.0	20.0
87.5°	5.8	5.1	5.8	6.1	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)