

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: P974506

Luminaire Tested: FLR2-24-30HE-L830-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974506
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-L830-CP080
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 1
Light Source:
Ballast/Driver: -

Summary

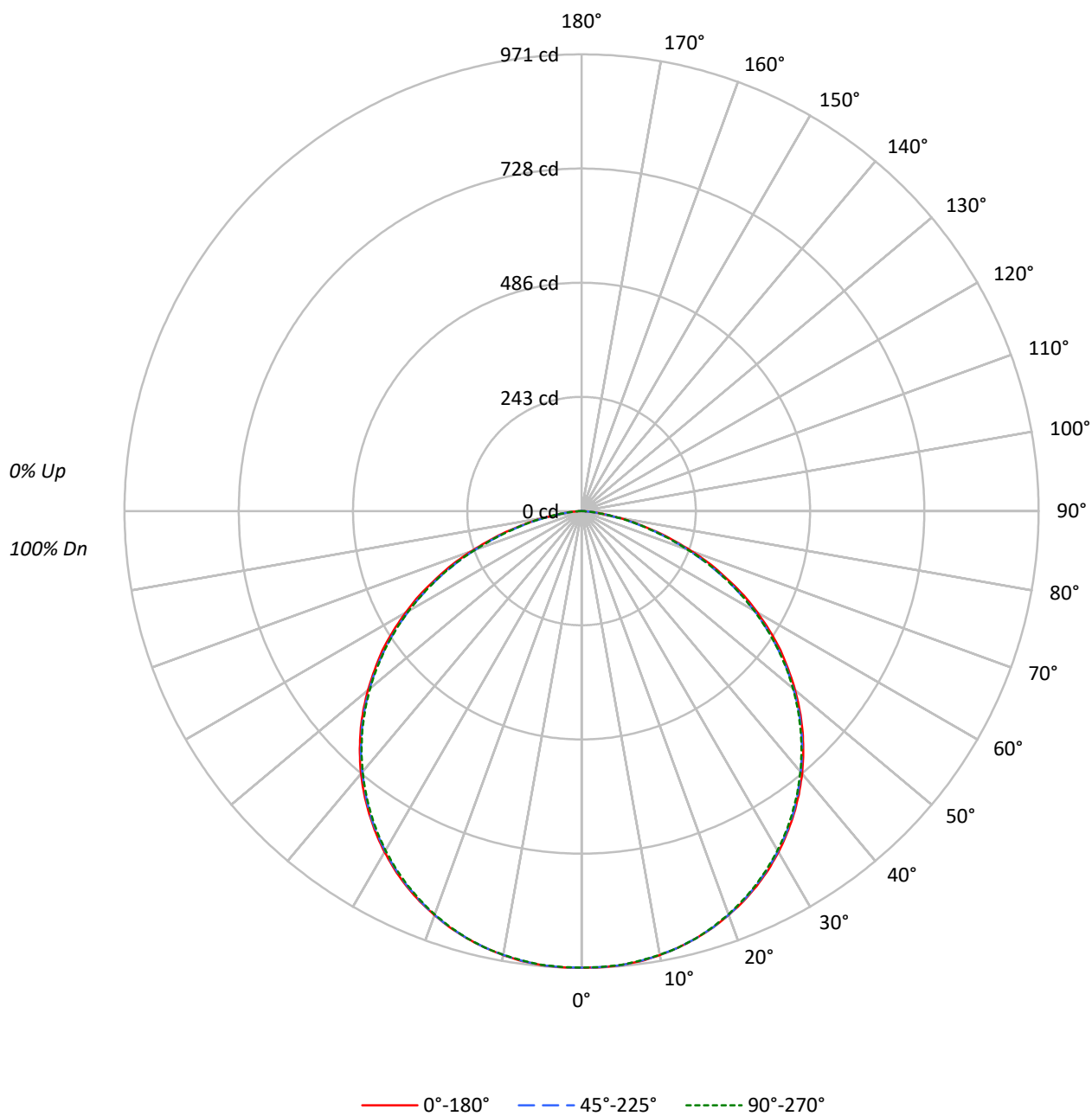
Lumens per Lamp: N/A
Luminaire Lumens: 2743.4 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	1306	1306	1306
5°	1309	1309	1308
10°	1310	1309	1309
15°	1310	1309	1309
20°	1309	1308	1306
25°	1306	1303	1301
30°	1300	1297	1294
35°	1292	1288	1284
40°	1280	1272	1271
45°	1264	1257	1253
50°	1240	1231	1227
55°	1211	1194	1192
60°	1160	1140	1140
65°	1086	1060	1063
70°	977	947	944
75°	820	788	784
80°	599	570	594
85°	338	312	316

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1264 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	3.4
10°-20°	265.4	9.7
20°-30°	404.7	14.8
30°-40°	490.3	17.9
40°-50°	509.3	18.6
50°-60°	455.6	16.6
60°-70°	332.1	12.1
70°-80°	164.4	6.0
80°-90°	29.4	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°	762.3	27.8
0°-40°	1252.6	45.7
0°-60°	2217.5	80.8
0°-90°	2743.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2743.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	971	971	971	971	971	
5°	969	969	969	969	968	92
15°	940	940	940	941	940	266
25°	880	879	878	878	877	405
35°	786	785	784	783	782	492
45°	664	663	660	659	658	512
55°	516	512	509	509	508	460
65°	341	338	333	334	334	338
75°	158	155	152	154	151	168
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°	970.7	970.7	970.7	970.7	970.7
2.5°	970.7	970.3	970.3	970.7	970.0
5°	968.9	969.3	968.9	968.9	968.2
7.5°	965.1	964.8	964.4	964.8	963.7
10°	958.5	958.5	958.1	958.5	957.8
12.5°	950.5	950.5	950.5	950.8	950.5
15°	940.4	940.0	940.0	940.7	940.0
17.5°	928.5	928.2	928.2	927.8	927.1
20°	913.9	913.9	913.6	913.2	912.2
22.5°	898.2	897.9	896.8	896.8	895.4
25°	879.8	878.7	878.0	877.7	876.6
27.5°	859.6	858.2	857.1	856.4	855.4
30°	836.9	835.5	834.5	833.4	832.8
32.5°	812.6	811.9	810.1	809.8	808.4
35°	786.4	785.4	784.3	782.9	781.6
37.5°	758.6	757.5	755.1	754.4	753.3
40°	729.0	727.6	724.4	724.4	723.4
42.5°	697.3	695.9	693.8	692.4	691.7
45°	664.2	662.8	660.4	659.0	658.3
47.5°	629.0	628.0	625.2	624.1	623.1
50°	592.4	591.0	587.9	587.2	586.2
52.5°	554.1	553.4	549.2	548.9	547.9
55°	516.2	512.3	508.8	508.8	508.1
57.5°	474.4	471.6	467.1	467.1	466.4
60°	431.2	428.7	423.5	424.2	423.5
62.5°	389.0	383.8	378.9	381.0	379.3
65°	341.0	338.2	333.0	334.4	334.0
67.5°	297.1	291.9	287.0	289.8	288.4
70°	248.3	245.5	240.7	243.5	240.0
72.5°	202.4	199.9	195.0	198.2	194.7
75°	157.8	155.3	151.5	154.3	150.8
77.5°	115.6	113.9	110.4	113.2	113.9
80°	77.3	75.2	73.5	75.9	76.6
82.5°	45.3	43.9	43.2	43.5	45.3
85°	21.9	20.2	20.2	20.5	20.5
87.5°	5.9	5.2	5.9	6.3	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)