

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: P975078

Luminaire Tested: FLR2-24-30HE-L950-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975078
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-L950-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

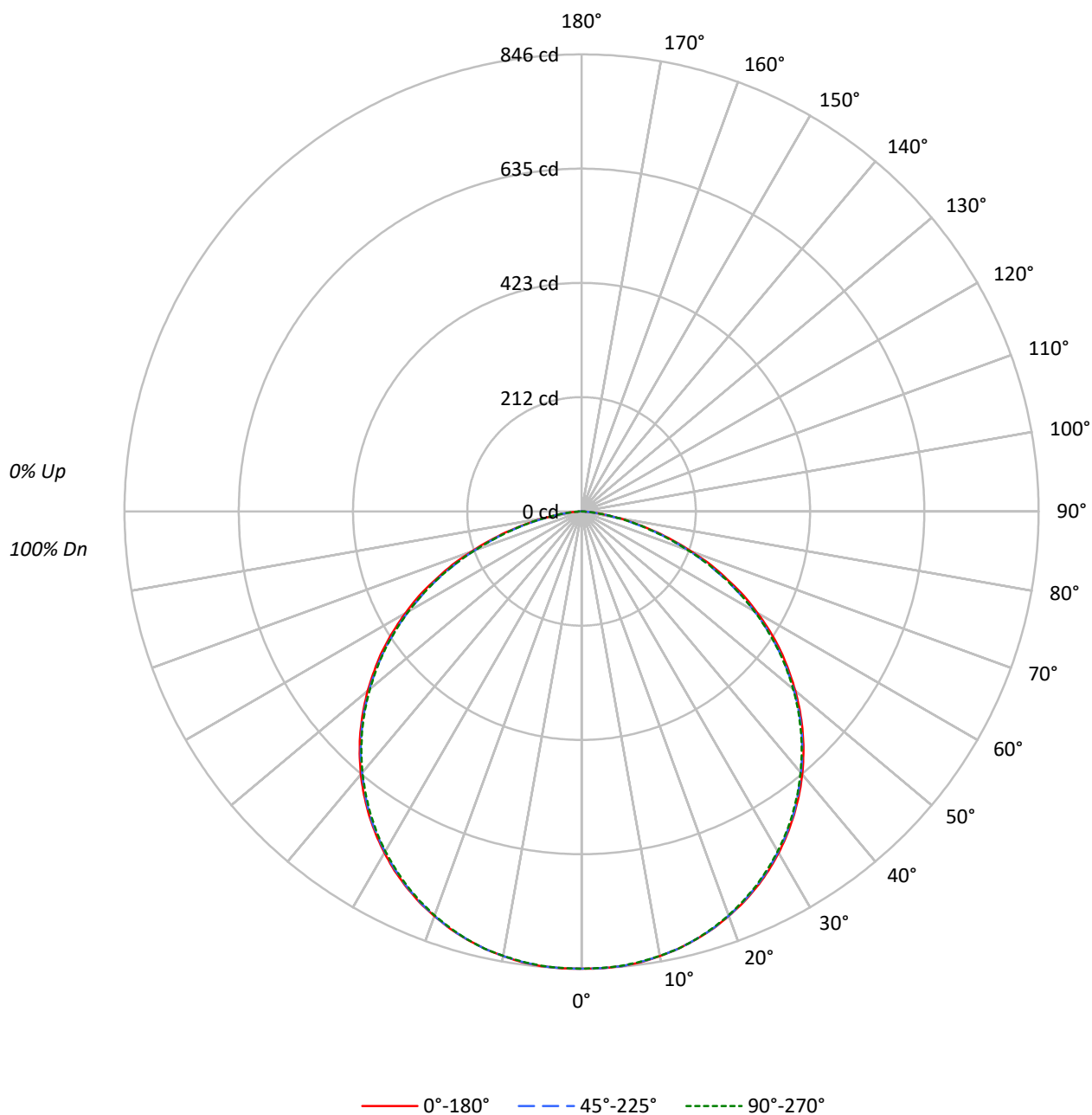
Lumens per Lamp: N/A
Luminaire Lumens: 2392.5 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1139	1139	1139
5°	1141	1141	1140
10°	1142	1142	1141
15°	1142	1142	1142
20°	1141	1141	1139
25°	1139	1137	1135
30°	1134	1131	1128
35°	1126	1123	1120
40°	1117	1110	1108
45°	1102	1096	1092
50°	1082	1073	1070
55°	1056	1041	1040
60°	1012	994	994
65°	947	925	927
70°	852	826	823
75°	715	687	684
80°	522	497	518
85°	295	272	276

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1102 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	3.4
10°-20°	231.5	9.7
20°-30°	352.9	14.8
30°-40°	427.6	17.9
40°-50°	444.2	18.6
50°-60°	397.3	16.6
60°-70°	289.6	12.1
70°-80°	143.4	6.0
80°-90°	25.6	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°	664.8	27.8
0°-40°	1092.4	45.7
0°-60°	1933.9	80.8
0°-90°	2392.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2392.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	846	846	846	846	846	
5°	845	845	845	845	844	80
15°	820	820	820	820	820	232
25°	767	766	766	765	764	354
35°	686	685	684	683	682	429
45°	579	578	576	575	574	446
55°	450	447	444	444	443	401
65°	297	295	290	292	291	295
75°	138	136	132	135	132	147
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°	846.5	846.5	846.5	846.5	846.5
2.5°	846.5	846.2	846.2	846.5	845.9
5°	845.0	845.3	845.0	845.0	844.4
7.5°	841.7	841.3	841.0	841.3	840.4
10°	835.9	835.9	835.6	835.9	835.3
12.5°	828.9	828.9	828.9	829.2	828.9
15°	820.1	819.8	819.8	820.4	819.8
17.5°	809.8	809.5	809.5	809.2	808.5
20°	797.0	797.0	796.7	796.4	795.5
22.5°	783.3	783.0	782.1	782.1	780.9
25°	767.2	766.3	765.7	765.4	764.5
27.5°	749.6	748.4	747.5	746.9	746.0
30°	729.9	728.7	727.8	726.8	726.2
32.5°	708.6	708.0	706.5	706.2	705.0
35°	685.8	684.9	684.0	682.8	681.6
37.5°	661.5	660.6	658.5	657.9	657.0
40°	635.7	634.5	631.8	631.8	630.9
42.5°	608.1	606.9	605.0	603.8	603.2
45°	579.2	578.0	575.9	574.7	574.1
47.5°	548.5	547.6	545.2	544.3	543.4
50°	516.7	515.4	512.7	512.1	511.2
52.5°	483.2	482.6	479.0	478.7	477.8
55°	450.1	446.8	443.8	443.8	443.2
57.5°	413.7	411.3	407.3	407.3	406.7
60°	376.0	373.9	369.3	370.0	369.3
62.5°	339.3	334.7	330.5	332.3	330.8
65°	297.4	294.9	290.4	291.6	291.3
67.5°	259.1	254.5	250.3	252.7	251.5
70°	216.6	214.1	209.9	212.3	209.3
72.5°	176.5	174.3	170.1	172.8	169.8
75°	137.6	135.5	132.1	134.6	131.5
77.5°	100.8	99.3	96.3	98.7	99.3
80°	67.4	65.6	64.1	66.2	66.8
82.5°	39.5	38.3	37.7	38.0	39.5
85°	19.1	17.6	17.6	17.9	17.9
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)