

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: P974507

Luminaire Tested: FLR2-24-35HE-L830-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974507
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: FLR2-24-35HE-L830-CP080
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 1
Light Source:
Ballast/Driver: -

Summary

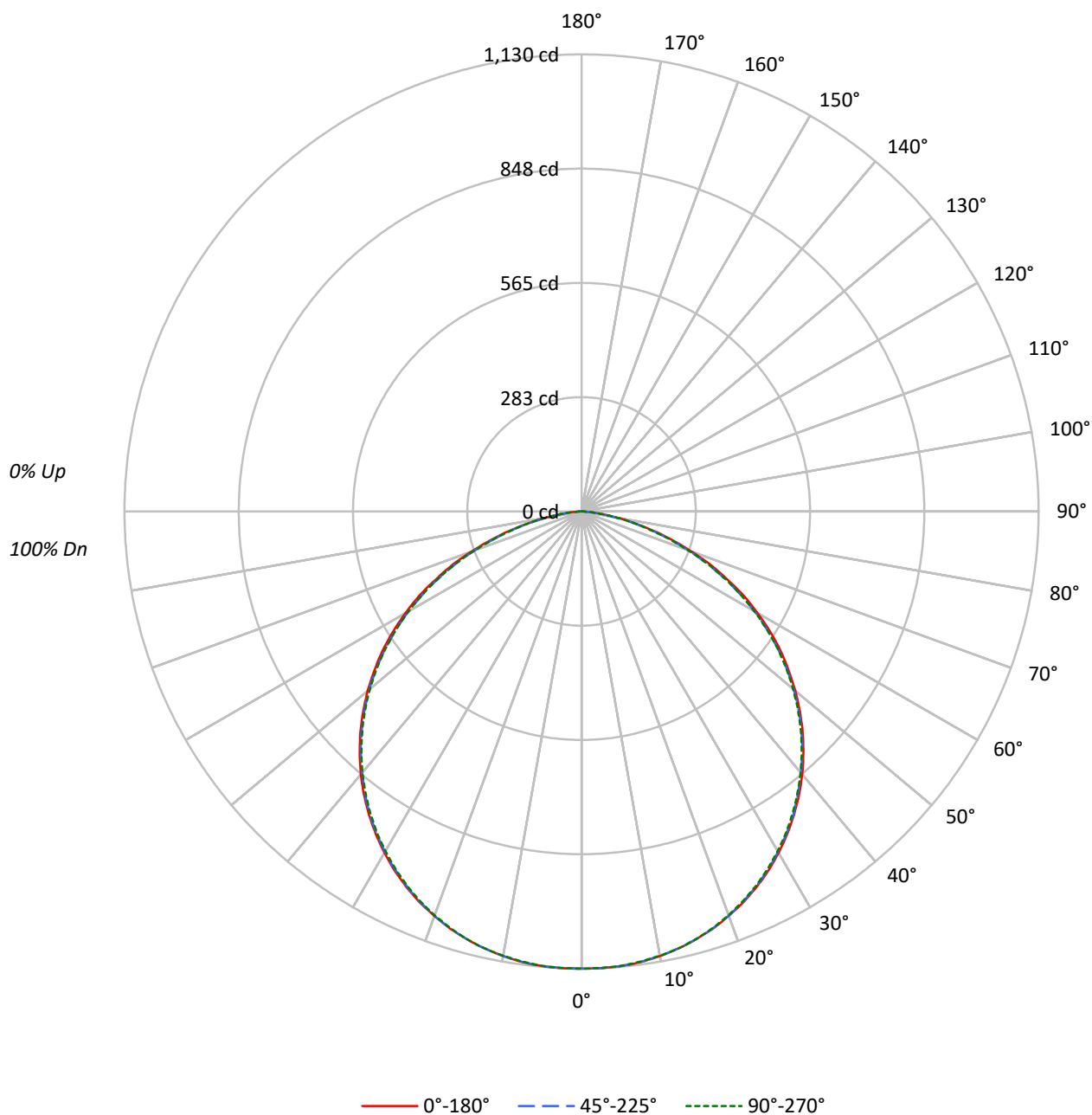
Lumens per Lamp: N/A
Luminaire Lumens: 3195.0 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.6
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°	1521	1521	1521
5°	1524	1524	1523
10°	1525	1525	1524
15°	1526	1525	1525
20°	1524	1523	1521
25°	1521	1518	1516
30°	1514	1510	1507
35°	1504	1500	1495
40°	1491	1482	1480
45°	1472	1463	1459
50°	1444	1433	1429
55°	1410	1390	1388
60°	1351	1327	1327
65°	1264	1235	1238
70°	1138	1103	1100
75°	955	917	913
80°	697	663	691
85°	395	363	369

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1472 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	3.4
10°-20°	309.1	9.7
20°-30°	471.3	14.8
30°-40°	571.0	17.9
40°-50°	593.2	18.6
50°-60°	530.6	16.6
60°-70°	386.7	12.1
70°-80°	191.5	6.0
80°-90°	34.2	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°	887.7	27.8
0°-40°	1458.8	45.7
0°-60°	2582.5	80.8
0°-90°	3195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3195.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1130	1130	1130	1130	1130	
5°	1128	1129	1128	1128	1128	107
15°	1095	1095	1095	1096	1095	309
25°	1025	1023	1023	1022	1021	472
35°	916	915	913	912	910	573
45°	774	772	769	767	767	596
55°	601	597	593	593	592	536
65°	397	394	388	389	389	394
75°	184	181	176	180	176	196
85°	26	24	24	24	24	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1130.5	1130.5	1130.5	1130.5	1130.5
2.5°	1130.5	1130.0	1130.0	1130.5	1129.6
5°	1128.4	1128.8	1128.4	1128.4	1127.6
7.5°	1124.0	1123.6	1123.2	1123.6	1122.3
10°	1116.3	1116.3	1115.9	1116.3	1115.4
12.5°	1106.9	1106.9	1106.9	1107.3	1106.9
15°	1095.2	1094.8	1094.8	1095.6	1094.8
17.5°	1081.4	1081.0	1081.0	1080.6	1079.8
20°	1064.3	1064.3	1063.9	1063.5	1062.3
22.5°	1046.1	1045.7	1044.5	1044.5	1042.8
25°	1024.6	1023.4	1022.6	1022.2	1020.9
27.5°	1001.1	999.4	998.2	997.4	996.2
30°	974.7	973.1	971.9	970.6	969.8
32.5°	946.3	945.5	943.5	943.1	941.4
35°	915.9	914.7	913.4	911.8	910.2
37.5°	883.4	882.2	879.4	878.6	877.3
40°	849.0	847.3	843.7	843.7	842.5
42.5°	812.0	810.4	808.0	806.4	805.6
45°	773.5	771.9	769.1	767.4	766.6
47.5°	732.5	731.3	728.1	726.9	725.6
50°	690.0	688.3	684.7	683.9	682.7
52.5°	645.3	644.5	639.7	639.3	638.0
55°	601.1	596.7	592.6	592.6	591.8
57.5°	552.5	549.2	543.9	543.9	543.1
60°	502.2	499.3	493.2	494.0	493.2
62.5°	453.1	447.0	441.3	443.7	441.7
65°	397.1	393.9	387.8	389.4	389.0
67.5°	346.0	339.9	334.2	337.5	335.9
70°	289.2	286.0	280.3	283.5	279.5
72.5°	235.7	232.8	227.1	230.8	226.7
75°	183.7	180.9	176.4	179.7	175.6
77.5°	134.7	132.6	128.6	131.8	132.6
80°	90.0	87.6	85.6	88.4	89.2
82.5°	52.7	51.1	50.3	50.7	52.7
85°	25.6	23.5	23.5	23.9	23.9
87.5°	6.9	6.1	6.9	7.3	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)