

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: P974552

Luminaire Tested: FLR2-24-40HE-L830-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974552
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: FLR2-24-40HE-L830-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

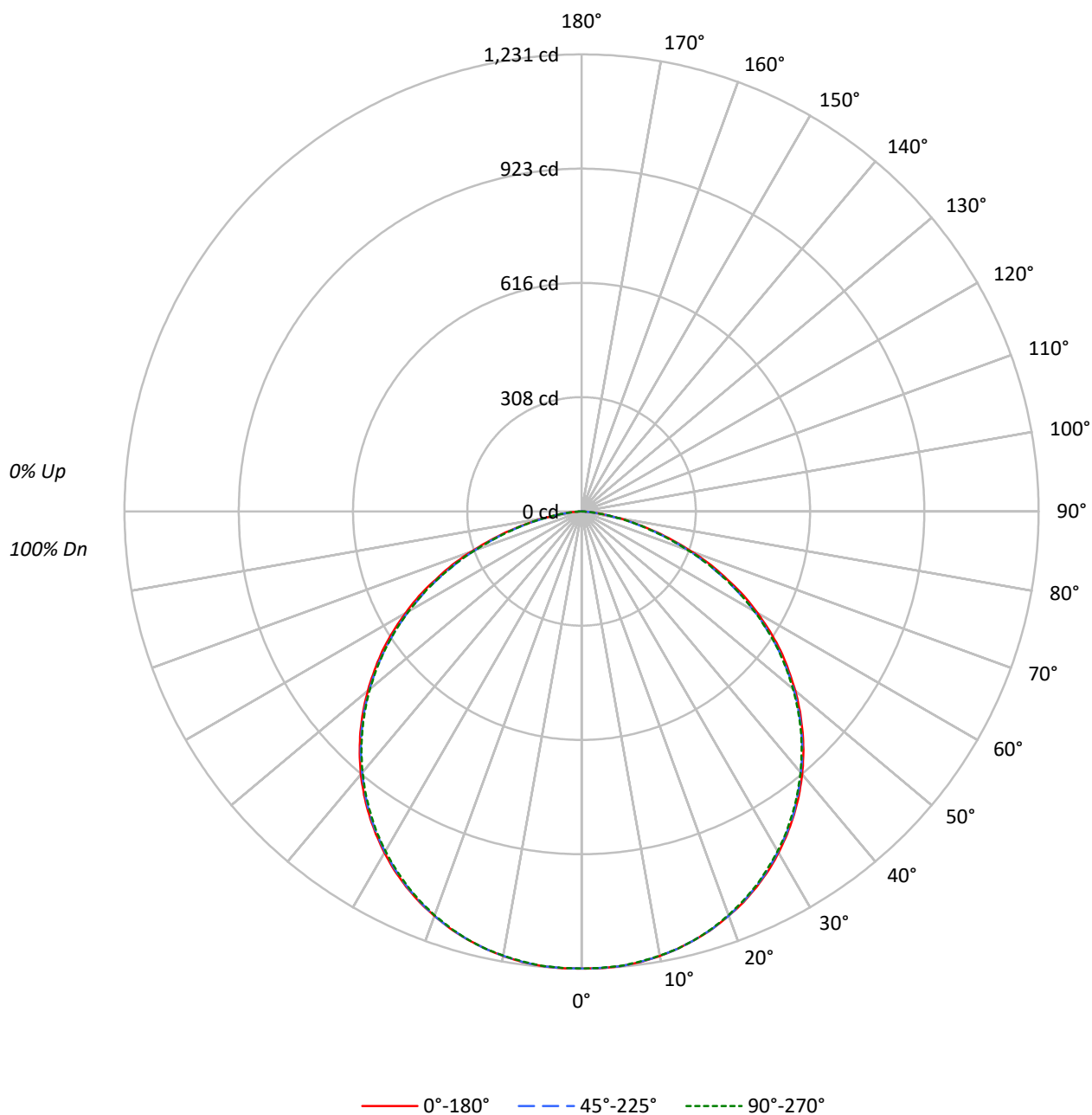
Lumens per Lamp: N/A
Luminaire Lumens: 3480.0 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.9
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

TEST NUMBER: P974552

CATALOG NUMBER: FLR2-24-40HE-L830-CP375

Luminous Intensity Polar Plot



TEST NUMBER: P974552

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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		
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27		
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1657	1657	1657
5°	1660	1660	1659
10°	1661	1661	1660
15°	1662	1661	1661
20°	1660	1659	1657
25°	1657	1654	1651
30°	1649	1645	1641
35°	1639	1634	1628
40°	1624	1614	1612
45°	1603	1594	1589
50°	1573	1561	1556
55°	1536	1514	1512
60°	1472	1446	1446
65°	1377	1345	1349
70°	1239	1201	1197
75°	1040	999	994
80°	760	722	753
85°	429	395	403

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1603 cd/sqm

TEST NUMBER: P974552

CATALOG NUMBER: FLR2-24-40HE-L830-CP375

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	3.4
10°-20°	336.7	9.7
20°-30°	513.3	14.8
30°-40°	622.0	17.9
40°-50°	646.1	18.6
50°-60°	577.9	16.6
60°-70°	421.2	12.1
70°-80°	208.6	6.0
80°-90°	37.3	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°	966.9	27.8
0°-40°	1588.9	45.7
0°-60°	2812.9	80.8
0°-90°	3480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1231	1231	1231	1231	1231	
5°	1229	1230	1229	1229	1228	117
15°	1193	1192	1192	1193	1192	337
25°	1116	1115	1114	1113	1112	514
35°	998	996	995	993	991	624
45°	842	841	838	836	835	649
55°	655	650	646	646	645	583
65°	432	429	422	424	424	429
75°	200	197	192	196	191	213
85°	28	26	26	26	26	39
90°	0	0	0	0	0	

TEST NUMBER: P974552

CATALOG NUMBER: FLR2-24-40HE-L830-CP375

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1231.3	1231.3	1231.3	1231.3	1231.3
2.5°	1231.3	1230.8	1230.8	1231.3	1230.4
5°	1229.1	1229.5	1229.1	1229.1	1228.2
7.5°	1224.2	1223.8	1223.3	1223.8	1222.4
10°	1215.8	1215.8	1215.4	1215.8	1214.9
12.5°	1205.7	1205.7	1205.7	1206.1	1205.7
15°	1192.8	1192.4	1192.4	1193.3	1192.4
17.5°	1177.8	1177.4	1177.4	1176.9	1176.1
20°	1159.3	1159.3	1158.8	1158.4	1157.1
22.5°	1139.4	1138.9	1137.6	1137.6	1135.9
25°	1116.0	1114.6	1113.8	1113.3	1112.0
27.5°	1090.4	1088.6	1087.3	1086.4	1085.0
30°	1061.6	1059.9	1058.5	1057.2	1056.3
32.5°	1030.7	1029.8	1027.6	1027.2	1025.4
35°	997.6	996.2	994.9	993.2	991.4
37.5°	962.2	960.9	957.8	956.9	955.6
40°	924.7	922.9	918.9	918.9	917.6
42.5°	884.5	882.7	880.1	878.3	877.4
45°	842.5	840.7	837.6	835.9	835.0
47.5°	797.9	796.6	793.0	791.7	790.4
50°	751.5	749.7	745.8	744.9	743.5
52.5°	702.9	702.0	696.7	696.3	694.9
55°	654.7	649.9	645.5	645.5	644.6
57.5°	601.7	598.2	592.4	592.4	591.6
60°	546.9	543.9	537.2	538.1	537.2
62.5°	493.5	486.9	480.7	483.3	481.1
65°	432.5	429.0	422.4	424.1	423.7
67.5°	376.9	370.2	364.0	367.6	365.8
70°	315.0	311.5	305.3	308.8	304.4
72.5°	256.7	253.6	247.4	251.4	247.0
75°	200.1	197.0	192.2	195.7	191.3
77.5°	146.7	144.5	140.0	143.6	144.5
80°	98.1	95.4	93.2	96.3	97.2
82.5°	57.4	55.7	54.8	55.2	57.4
85°	27.8	25.6	25.6	26.1	26.1
87.5°	7.5	6.6	7.5	8.0	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)