

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: P974092

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

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974092
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: FLR2-24-40-L830-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L830-CP375
Ballast/Driver: -

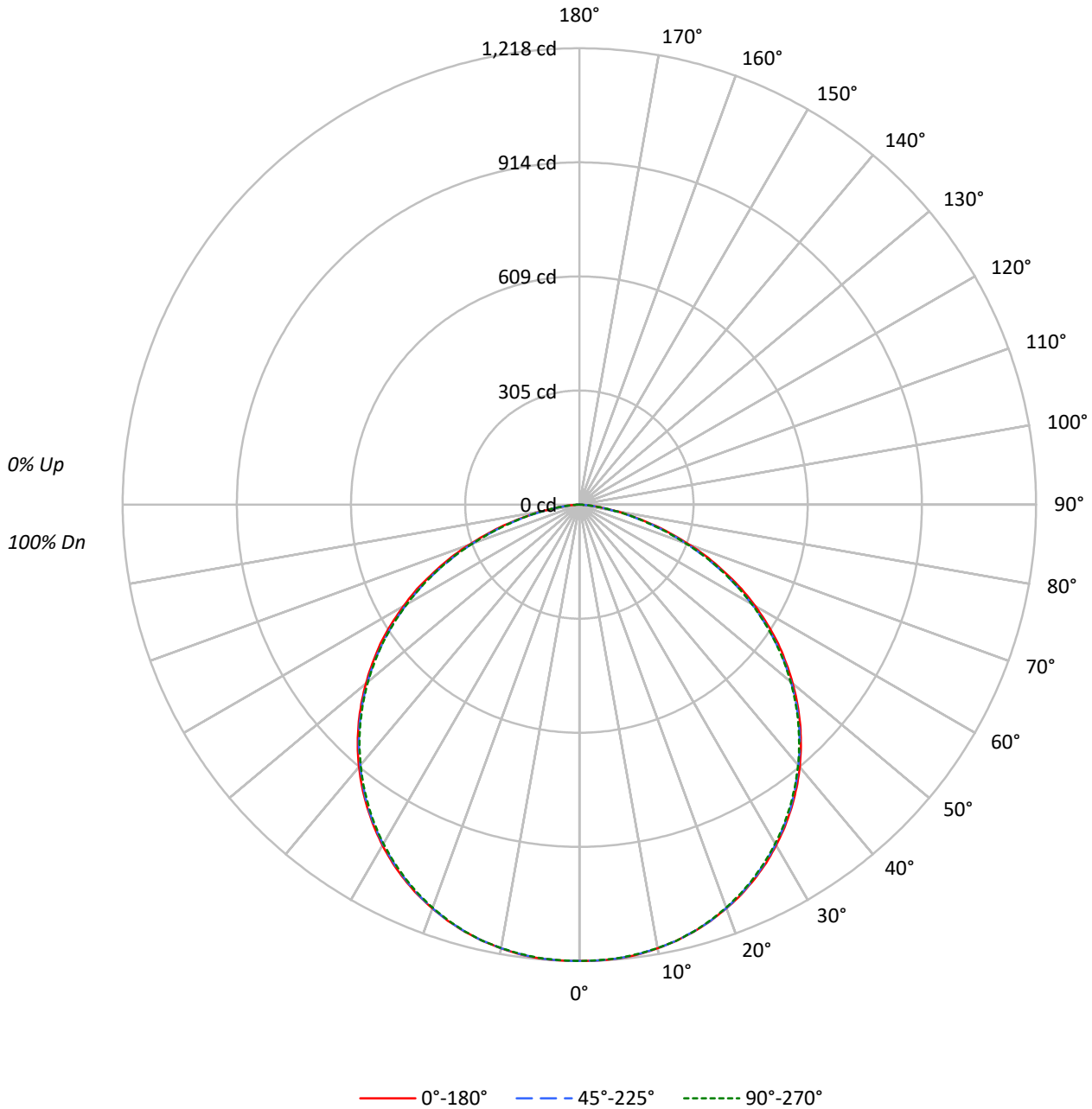
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3442.1 lumens
Efficiency: N/A
Efficacy: 113.6 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): 30.3
Input Voltage (V): 120
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: P974092
CATALOG NUMBER: FLR2-24-40-L830-CP375

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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°	1639	1639	1639
5°	1642	1642	1641
10°	1643	1643	1642
15°	1644	1643	1643
20°	1642	1641	1639
25°	1639	1636	1633
30°	1631	1627	1623
35°	1621	1616	1611
40°	1606	1596	1594
45°	1586	1576	1572
50°	1556	1544	1540
55°	1519	1498	1496
60°	1456	1430	1430
65°	1362	1330	1334
70°	1226	1188	1185
75°	1029	988	984
80°	752	714	745
85°	425	391	398

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1586 cd/sqm



TEST NUMBER: P974092
 CATALOG NUMBER: FLR2-24-40-L830-CP375

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.6	3.4
10°-20°	333.0	9.7
20°-30°	507.8	14.8
30°-40°	615.2	17.9
40°-50°	639.0	18.6
50°-60°	571.7	16.6
60°-70°	416.6	12.1
70°-80°	206.3	6.0
80°-90°	36.9	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°	956.4	27.8
0°-40°	1571.6	45.7
0°-60°	2782.3	80.8
0°-90°	3442.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3442.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1218	1218	1218	1218	1218	
5°	1216	1216	1216	1216	1215	116
15°	1180	1179	1179	1180	1179	333
25°	1104	1102	1102	1101	1100	509
35°	987	985	984	982	981	617
45°	833	832	828	827	826	642
55°	648	643	638	638	638	577
65°	428	424	418	420	419	424
75°	198	195	190	194	189	211
85°	28	25	25	26	26	38
90°	0	0	0	0	0	



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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1217.9	1217.9	1217.9	1217.9	1217.9
2.5°	1217.9	1217.5	1217.5	1217.9	1217.0
5°	1215.7	1216.1	1215.7	1215.7	1214.8
7.5°	1210.9	1210.5	1210.0	1210.5	1209.2
10°	1202.6	1202.6	1202.2	1202.6	1201.7
12.5°	1192.5	1192.5	1192.5	1193.0	1192.5
15°	1179.9	1179.4	1179.4	1180.3	1179.4
17.5°	1165.0	1164.6	1164.6	1164.1	1163.3
20°	1146.7	1146.7	1146.2	1145.8	1144.5
22.5°	1127.0	1126.6	1125.3	1125.3	1123.5
25°	1103.8	1102.5	1101.7	1101.2	1099.9
27.5°	1078.5	1076.7	1075.4	1074.6	1073.2
30°	1050.1	1048.3	1047.0	1045.7	1044.8
32.5°	1019.5	1018.6	1016.4	1016.0	1014.3
35°	986.7	985.4	984.1	982.4	980.6
37.5°	951.8	950.5	947.4	946.5	945.2
40°	914.6	912.9	908.9	908.9	907.6
42.5°	874.9	873.1	870.5	868.7	867.9
45°	833.3	831.6	828.5	826.8	825.9
47.5°	789.2	787.9	784.4	783.1	781.8
50°	743.3	741.6	737.6	736.8	735.5
52.5°	695.3	694.4	689.1	688.7	687.4
55°	647.6	642.8	638.4	638.4	637.6
57.5°	595.2	591.7	586.0	586.0	585.1
60°	541.0	537.9	531.4	532.3	531.4
62.5°	488.1	481.6	475.4	478.1	475.9
65°	427.8	424.3	417.8	419.5	419.1
67.5°	372.8	366.2	360.1	363.6	361.8
70°	311.6	308.1	302.0	305.5	301.1
72.5°	253.9	250.8	244.7	248.6	244.3
75°	198.0	194.9	190.1	193.6	189.2
77.5°	145.1	142.9	138.5	142.0	142.9
80°	97.0	94.4	92.2	95.3	96.1
82.5°	56.8	55.1	54.2	54.6	56.8
85°	27.5	25.3	25.3	25.8	25.8
87.5°	7.4	6.6	7.4	7.9	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)