

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: P974316

Luminaire Tested: FLR2-24-40-L840-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974316
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-L840-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L840-CP375
Ballast/Driver: -

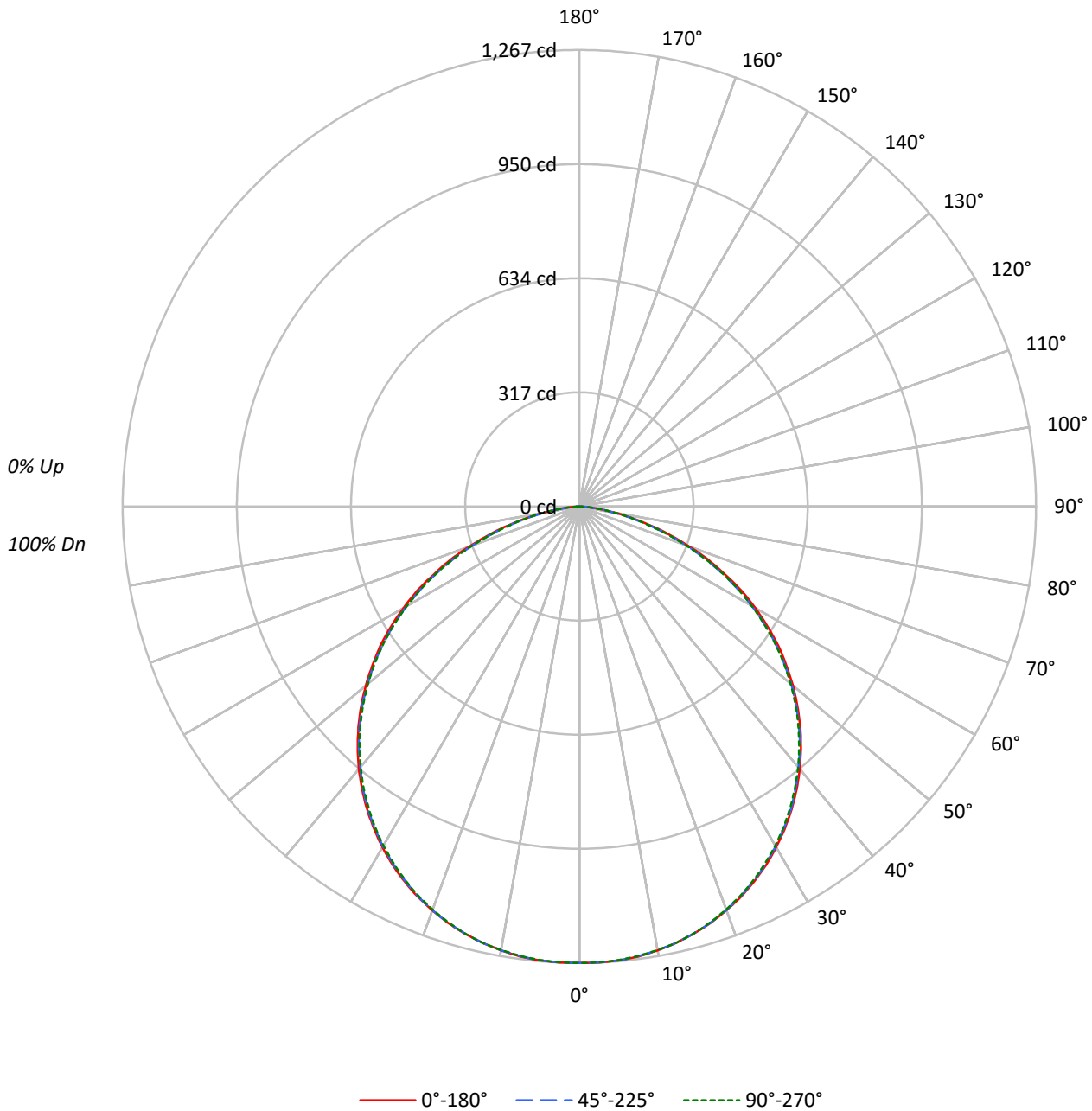
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3581.2 lumens
Efficiency: N/A
Efficacy: 118.2 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): 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

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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°	1705	1705	1705
5°	1708	1708	1707
10°	1709	1709	1708
15°	1710	1709	1709
20°	1708	1707	1705
25°	1705	1702	1699
30°	1697	1692	1689
35°	1686	1682	1676
40°	1671	1661	1659
45°	1650	1640	1635
50°	1619	1606	1602
55°	1581	1558	1556
60°	1515	1488	1488
65°	1417	1384	1388
70°	1275	1236	1233
75°	1071	1028	1024
80°	782	743	775
85°	442	408	414

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1650 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.3	3.4
10°-20°	346.5	9.7
20°-30°	528.3	14.8
30°-40°	640.1	17.9
40°-50°	664.8	18.6
50°-60°	594.8	16.6
60°-70°	433.5	12.1
70°-80°	214.7	6.0
80°-90°	38.4	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°	995.0	27.8
0°-40°	1635.1	45.7
0°-60°	2894.7	80.8
0°-90°	3581.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3581.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1267	1267	1267	1267	1267	
5°	1265	1265	1265	1265	1264	120
15°	1228	1227	1227	1228	1227	347
25°	1148	1147	1146	1146	1144	529
35°	1027	1025	1024	1022	1020	642
45°	867	865	862	860	859	668
55°	674	669	664	664	663	600
65°	445	442	435	436	436	441
75°	206	203	198	201	197	220
85°	29	26	26	27	27	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1267.1	1267.1	1267.1	1267.1	1267.1
2.5°	1267.1	1266.6	1266.6	1267.1	1266.2
5°	1264.8	1265.3	1264.8	1264.8	1263.9
7.5°	1259.8	1259.4	1258.9	1259.4	1258.0
10°	1251.2	1251.2	1250.7	1251.2	1250.3
12.5°	1240.7	1240.7	1240.7	1241.2	1240.7
15°	1227.5	1227.1	1227.1	1228.0	1227.1
17.5°	1212.1	1211.6	1211.6	1211.2	1210.3
20°	1193.0	1193.0	1192.5	1192.1	1190.7
22.5°	1172.5	1172.1	1170.7	1170.7	1168.9
25°	1148.4	1147.1	1146.2	1145.7	1144.3
27.5°	1122.1	1120.3	1118.9	1118.0	1116.6
30°	1092.5	1090.7	1089.3	1088.0	1087.1
32.5°	1060.7	1059.8	1057.5	1057.1	1055.2
35°	1026.6	1025.2	1023.9	1022.0	1020.2
37.5°	990.2	988.9	985.7	984.8	983.4
40°	951.6	949.8	945.7	945.7	944.3
42.5°	910.2	908.4	905.7	903.8	902.9
45°	867.0	865.2	862.0	860.2	859.3
47.5°	821.1	819.7	816.1	814.7	813.4
50°	773.4	771.5	767.4	766.5	765.2
52.5°	723.3	722.4	717.0	716.5	715.2
55°	673.8	668.8	664.2	664.2	663.3
57.5°	619.2	615.6	609.7	609.7	608.8
60°	562.9	559.7	552.9	553.8	552.9
62.5°	507.8	501.0	494.7	497.4	495.1
65°	445.1	441.5	434.6	436.5	436.0
67.5°	387.8	381.0	374.6	378.3	376.4
70°	324.2	320.5	314.2	317.8	313.3
72.5°	264.1	261.0	254.6	258.7	254.1
75°	206.0	202.8	197.8	201.4	196.9
77.5°	150.9	148.7	144.1	147.8	148.7
80°	100.9	98.2	95.9	99.1	100.0
82.5°	59.1	57.3	56.4	56.8	59.1
85°	28.6	26.4	26.4	26.8	26.8
87.5°	7.7	6.8	7.7	8.2	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)