

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: P974307

Luminaire Tested: FLR2-24-35-L840-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974307
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: FLR2-24-35-L840-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L840-CP250
Ballast/Driver: -

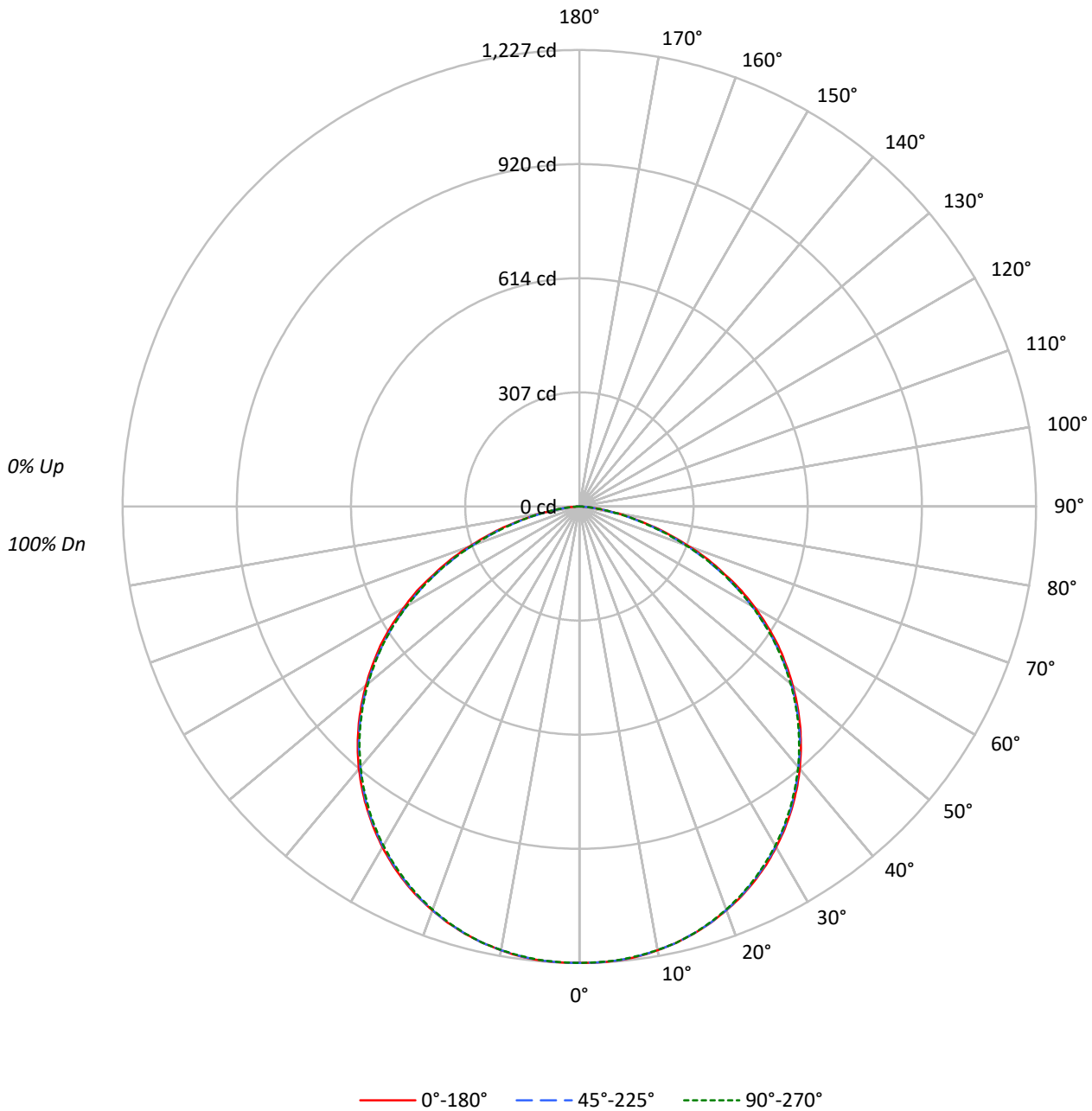
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3467.7 lumens
Efficiency: N/A
Efficacy: 122.1 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): 28.4
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°	1651	1651	1651
5°	1654	1654	1653
10°	1655	1655	1654
15°	1656	1655	1655
20°	1654	1653	1651
25°	1651	1648	1645
30°	1644	1639	1635
35°	1633	1628	1623
40°	1618	1608	1606
45°	1597	1588	1583
50°	1567	1555	1551
55°	1530	1509	1507
60°	1467	1440	1440
65°	1372	1340	1344
70°	1235	1197	1193
75°	1037	996	991
80°	757	720	751
85°	428	394	401

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1597 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.5	3.4
10°-20°	335.5	9.7
20°-30°	511.5	14.8
30°-40°	619.8	17.9
40°-50°	643.8	18.6
50°-60°	575.9	16.6
60°-70°	419.7	12.1
70°-80°	207.9	6.0
80°-90°	37.2	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°	963.5	27.8
0°-40°	1583.3	45.7
0°-60°	2803.0	80.8
0°-90°	3467.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3467.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1227	1227	1227	1227	1227	
5°	1225	1225	1225	1225	1224	116
15°	1189	1188	1188	1189	1188	336
25°	1112	1111	1110	1109	1108	513
35°	994	993	991	990	988	622
45°	840	838	835	833	832	647
55°	652	648	643	643	642	581
65°	431	428	421	423	422	427
75°	199	196	192	195	191	213
85°	28	26	26	26	26	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1226.9	1226.9	1226.9	1226.9	1226.9
2.5°	1226.9	1226.5	1226.5	1226.9	1226.1
5°	1224.7	1225.2	1224.7	1224.7	1223.9
7.5°	1219.9	1219.5	1219.0	1219.5	1218.1
10°	1211.5	1211.5	1211.1	1211.5	1210.7
12.5°	1201.4	1201.4	1201.4	1201.8	1201.4
15°	1188.6	1188.2	1188.2	1189.1	1188.2
17.5°	1173.7	1173.2	1173.2	1172.8	1171.9
20°	1155.2	1155.2	1154.7	1154.3	1153.0
22.5°	1135.4	1134.9	1133.6	1133.6	1131.9
25°	1112.0	1110.7	1109.8	1109.4	1108.1
27.5°	1086.5	1084.7	1083.4	1082.5	1081.2
30°	1057.9	1056.1	1054.8	1053.5	1052.6
32.5°	1027.1	1026.2	1024.0	1023.6	1021.8
35°	994.1	992.7	991.4	989.7	987.9
37.5°	958.8	957.5	954.4	953.6	952.2
40°	921.4	919.7	915.7	915.7	914.4
42.5°	881.4	879.6	877.0	875.2	874.3
45°	839.5	837.8	834.7	832.9	832.0
47.5°	795.1	793.7	790.2	788.9	787.6
50°	748.8	747.1	743.1	742.2	740.9
52.5°	700.4	699.5	694.3	693.8	692.5
55°	652.4	647.6	643.2	643.2	642.3
57.5°	599.6	596.1	590.4	590.4	589.5
60°	545.0	541.9	535.3	536.2	535.3
62.5°	491.7	485.1	479.0	481.6	479.4
65°	431.0	427.5	420.9	422.6	422.2
67.5°	375.5	368.9	362.8	366.3	364.5
70°	313.9	310.4	304.2	307.7	303.3
72.5°	255.8	252.7	246.5	250.5	246.1
75°	199.4	196.3	191.5	195.0	190.6
77.5°	146.2	144.0	139.6	143.1	144.0
80°	97.7	95.1	92.9	96.0	96.9
82.5°	57.2	55.5	54.6	55.0	57.2
85°	27.7	25.5	25.5	26.0	26.0
87.5°	7.5	6.6	7.5	7.9	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)