

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: P974283

Luminaire Tested: FLR2-24-35-L840-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974283
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L840-CP080
Ballast/Driver: -

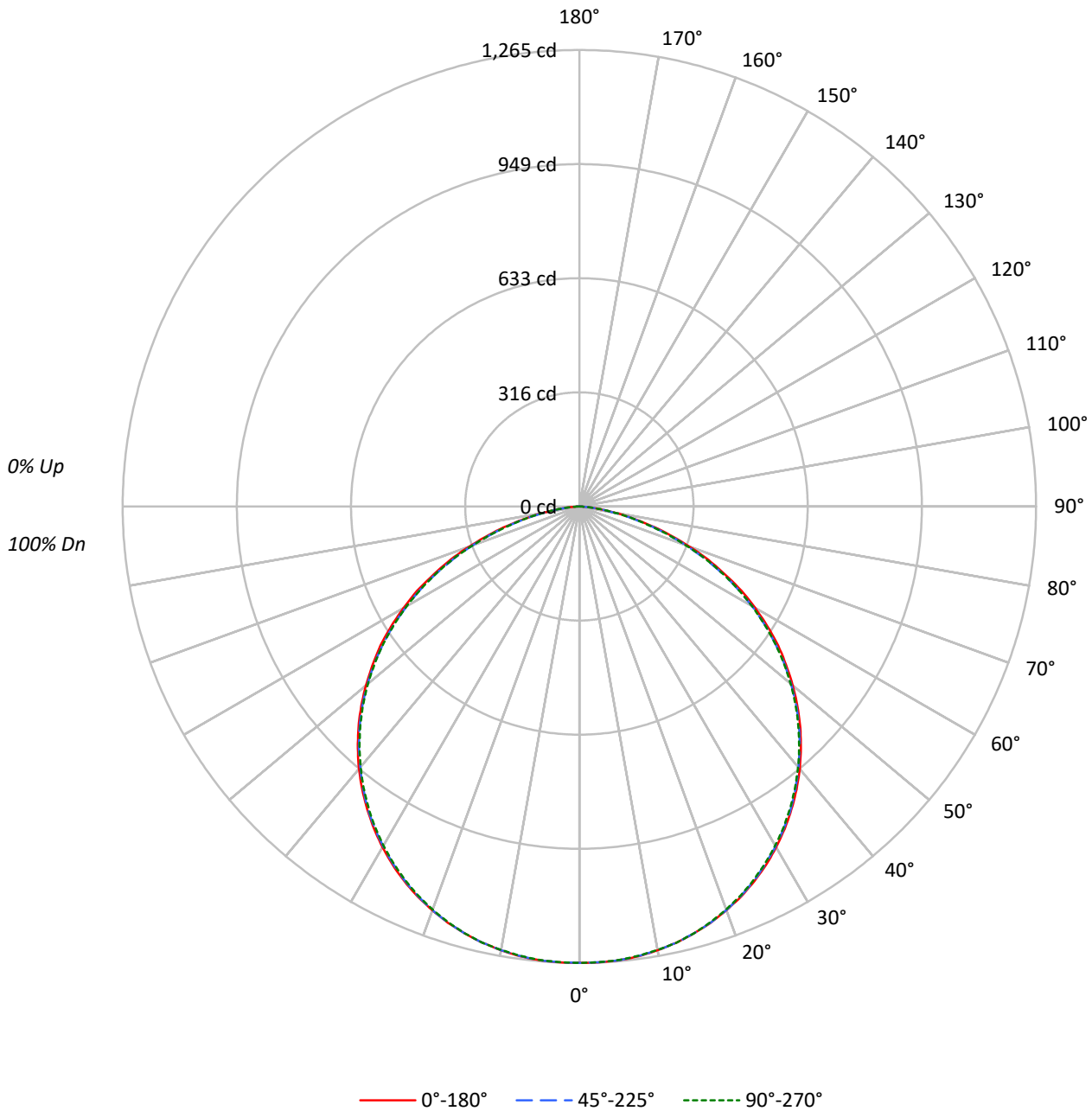
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3574.7 lumens
Efficiency: N/A
Efficacy: 125.9 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

TEST NUMBER: P974283
CATALOG NUMBER: FLR2-24-35-L840-CP080

Luminous Intensity Polar Plot





TEST NUMBER: P974283
 CATALOG NUMBER: FLR2-24-35-L840-CP080

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°	1702	1702	1702
5°	1705	1705	1704
10°	1706	1706	1705
15°	1707	1706	1706
20°	1705	1704	1702
25°	1702	1699	1696
30°	1694	1689	1686
35°	1683	1679	1673
40°	1668	1658	1656
45°	1647	1637	1632
50°	1616	1603	1599
55°	1578	1555	1553
60°	1512	1485	1485
65°	1415	1381	1386
70°	1273	1234	1230
75°	1069	1026	1022
80°	780	742	773
85°	442	406	414

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1647 cd/sqm



TEST NUMBER: P974283
 CATALOG NUMBER: FLR2-24-35-L840-CP080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	3.4
10°-20°	345.9	9.7
20°-30°	527.3	14.8
30°-40°	638.9	17.9
40°-50°	663.6	18.6
50°-60°	593.7	16.6
60°-70°	432.7	12.1
70°-80°	214.3	6.0
80°-90°	38.3	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°	993.2	27.8
0°-40°	1632.1	45.7
0°-60°	2889.4	80.8
0°-90°	3574.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3574.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1265	1265	1265	1265	1265	
5°	1262	1263	1262	1262	1262	120
15°	1225	1225	1225	1226	1225	346
25°	1146	1145	1144	1144	1142	528
35°	1025	1023	1022	1020	1018	641
45°	865	864	860	859	858	667
55°	673	668	663	663	662	599
65°	444	441	434	436	435	440
75°	206	202	197	201	196	219
85°	29	26	26	27	27	40
90°	0	0	0	0	0	



TEST NUMBER: P974283
 CATALOG NUMBER: FLR2-24-35-L840-CP080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1264.8	1264.8	1264.8	1264.8	1264.8
2.5°	1264.8	1264.3	1264.3	1264.8	1263.9
5°	1262.5	1263.0	1262.5	1262.5	1261.6
7.5°	1257.5	1257.1	1256.6	1257.1	1255.7
10°	1248.9	1248.9	1248.5	1248.9	1248.0
12.5°	1238.5	1238.5	1238.5	1238.9	1238.5
15°	1225.3	1224.9	1224.9	1225.8	1224.9
17.5°	1209.9	1209.4	1209.4	1209.0	1208.1
20°	1190.8	1190.8	1190.4	1189.9	1188.5
22.5°	1170.4	1169.9	1168.6	1168.6	1166.8
25°	1146.3	1145.0	1144.1	1143.6	1142.3
27.5°	1120.0	1118.2	1116.8	1115.9	1114.6
30°	1090.5	1088.7	1087.3	1086.0	1085.1
32.5°	1058.8	1057.8	1055.6	1055.1	1053.3
35°	1024.7	1023.4	1022.0	1020.2	1018.4
37.5°	988.4	987.1	983.9	983.0	981.6
40°	949.8	948.0	943.9	943.9	942.6
42.5°	908.5	906.7	904.0	902.2	901.3
45°	865.4	863.6	860.4	858.6	857.7
47.5°	819.6	818.2	814.6	813.2	811.9
50°	771.9	770.1	766.0	765.1	763.8
52.5°	722.0	721.1	715.7	715.2	713.9
55°	672.6	667.6	663.0	663.0	662.1
57.5°	618.1	614.5	608.6	608.6	607.7
60°	561.8	558.6	551.8	552.7	551.8
62.5°	506.9	500.1	493.8	496.5	494.2
65°	444.3	440.7	433.8	435.7	435.2
67.5°	387.1	380.3	373.9	377.6	375.8
70°	323.6	319.9	313.6	317.2	312.7
72.5°	263.7	260.5	254.1	258.2	253.7
75°	205.6	202.4	197.4	201.0	196.5
77.5°	150.7	148.4	143.9	147.5	148.4
80°	100.7	98.0	95.8	98.9	99.8
82.5°	59.0	57.2	56.3	56.7	59.0
85°	28.6	26.3	26.3	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)