

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: P973881

Luminaire Tested: FLR2-22-50HE-L935-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-50HE-L935-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

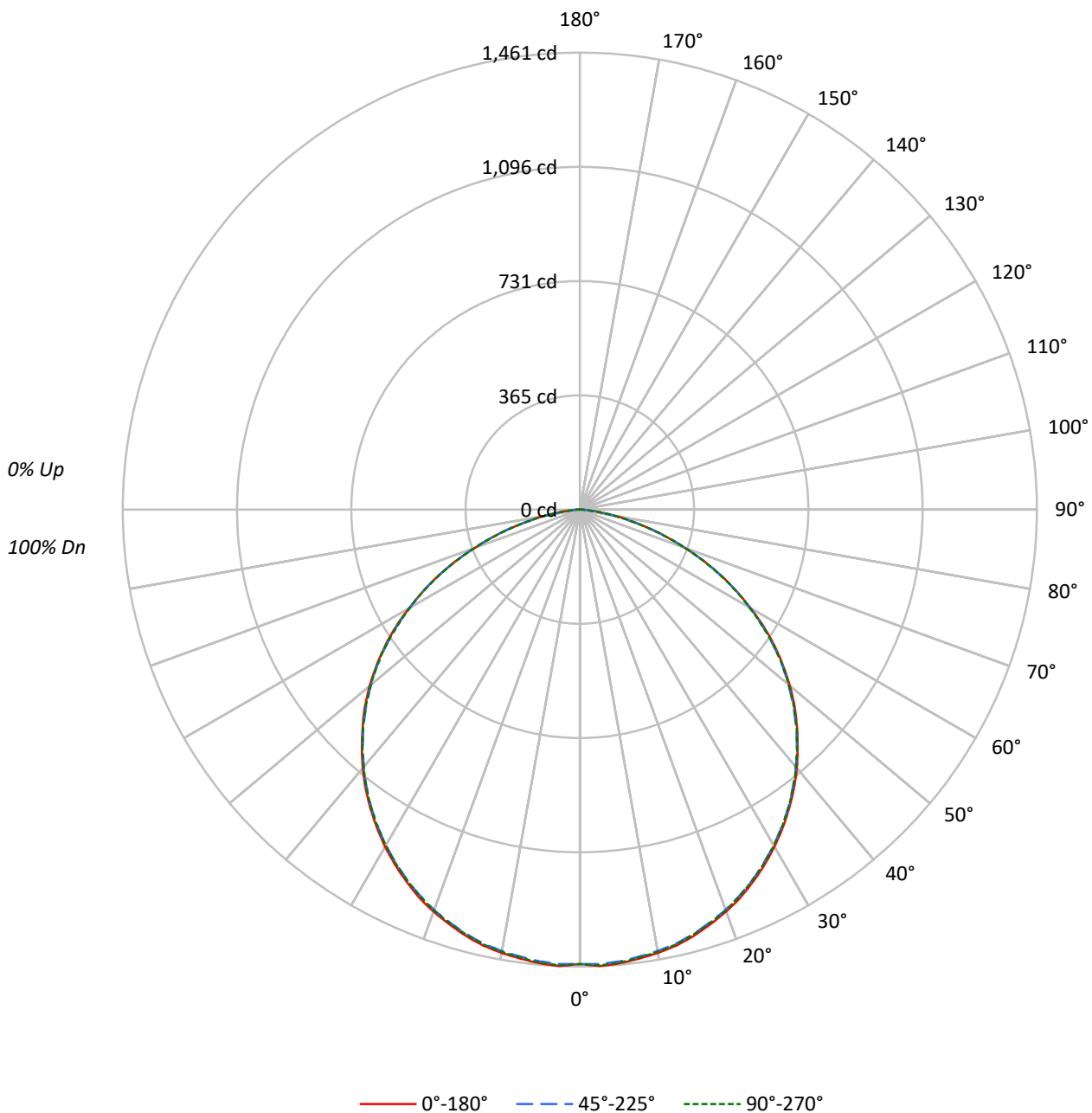
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4063.1 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 40
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: P973881
CATALOG NUMBER: FLR2-22-50HE-L935-CA080

Luminous Intensity Polar Plot





TEST NUMBER: P973881
 CATALOG NUMBER: FLR2-22-50HE-L935-CA080

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	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	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3910	3910	3910
5°	3934	3917	3930
10°	3933	3916	3924
15°	3930	3913	3918
20°	3917	3901	3906
25°	3896	3880	3882
30°	3868	3851	3854
35°	3832	3818	3821
40°	3792	3773	3777
45°	3736	3719	3726
50°	3671	3644	3652
55°	3566	3537	3549
60°	3391	3376	3376
65°	3166	3160	3149
70°	2803	2817	2810
75°	2360	2341	2324
80°	1697	1669	1655
85°	886	886	858

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3736 cd/sqm



TEST NUMBER: P973881
 CATALOG NUMBER: FLR2-22-50HE-L935-CA080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	3.4
10°-20°	395.6	9.7
20°-30°	601.2	14.8
30°-40°	726.7	17.9
40°-50°	754.3	18.6
50°-60°	674.4	16.6
60°-70°	490.3	12.1
70°-80°	241.1	5.9
80°-90°	41.8	1.0
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°	1134.5	27.9
0°-40°	1861.2	45.8
0°-60°	3289.8	81.0
0°-90°	4063.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4063.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1453	1453	1453	1453	1453	
5°	1456	1439	1450	1445	1455	138
15°	1411	1395	1404	1401	1406	398
25°	1312	1298	1307	1304	1308	605
35°	1167	1159	1162	1163	1163	730
45°	982	977	977	979	979	757
55°	760	756	754	756	756	678
65°	497	499	496	496	494	490
75°	227	229	225	226	224	241
85°	29	30	29	29	28	42
90°	0	0	0	0	0	



TEST NUMBER: P973881
 CATALOG NUMBER: FLR2-22-50HE-L935-CA080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1452.9	1452.9	1452.9	1452.9	1452.9
2.5°	1461.0	1443.9	1454.7	1448.4	1458.3
5°	1456.5	1439.4	1450.2	1444.8	1454.7
7.5°	1448.4	1431.4	1442.1	1436.8	1444.8
10°	1439.4	1421.5	1433.2	1427.8	1435.9
12.5°	1427.8	1410.7	1421.5	1417.0	1424.2
15°	1410.7	1394.6	1404.4	1400.9	1406.2
17.5°	1390.1	1373.9	1383.8	1381.1	1385.6
20°	1367.7	1352.4	1362.3	1359.6	1364.1
22.5°	1342.5	1326.4	1335.3	1333.6	1337.1
25°	1312.0	1297.7	1306.6	1303.9	1307.5
27.5°	1279.7	1266.2	1273.4	1273.4	1275.2
30°	1244.7	1232.1	1239.3	1239.3	1240.2
32.5°	1207.0	1197.1	1201.6	1202.5	1202.5
35°	1166.6	1158.6	1162.1	1163.0	1163.0
37.5°	1124.5	1116.4	1119.1	1120.9	1120.9
40°	1079.6	1072.4	1074.2	1076.0	1075.1
42.5°	1031.1	1025.7	1026.6	1028.4	1028.4
45°	981.8	977.3	977.3	979.1	979.1
47.5°	931.5	927.0	925.2	927.0	927.0
50°	876.8	872.3	870.5	872.3	872.3
52.5°	819.3	814.8	814.8	814.8	815.7
55°	760.1	755.6	753.8	755.6	756.5
57.5°	697.3	695.5	692.8	693.7	691.0
60°	630.0	630.0	627.3	629.1	627.3
62.5°	564.5	566.3	563.6	563.6	561.8
65°	497.2	499.0	496.3	496.3	494.5
67.5°	428.1	430.8	427.2	427.2	425.4
70°	356.3	361.7	358.1	359.0	357.2
72.5°	291.7	294.4	290.8	290.8	289.0
75°	227.0	228.8	225.2	226.1	223.5
77.5°	163.3	166.0	162.4	163.3	162.4
80°	109.5	110.4	107.7	108.6	106.8
82.5°	63.7	64.6	63.7	62.8	61.9
85°	28.7	29.6	28.7	28.7	27.8
87.5°	7.2	7.2	7.2	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)