

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: P974597

Luminaire Tested: FLR2-24-45HE-L930-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974597
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: FLR2-24-45HE-L930-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

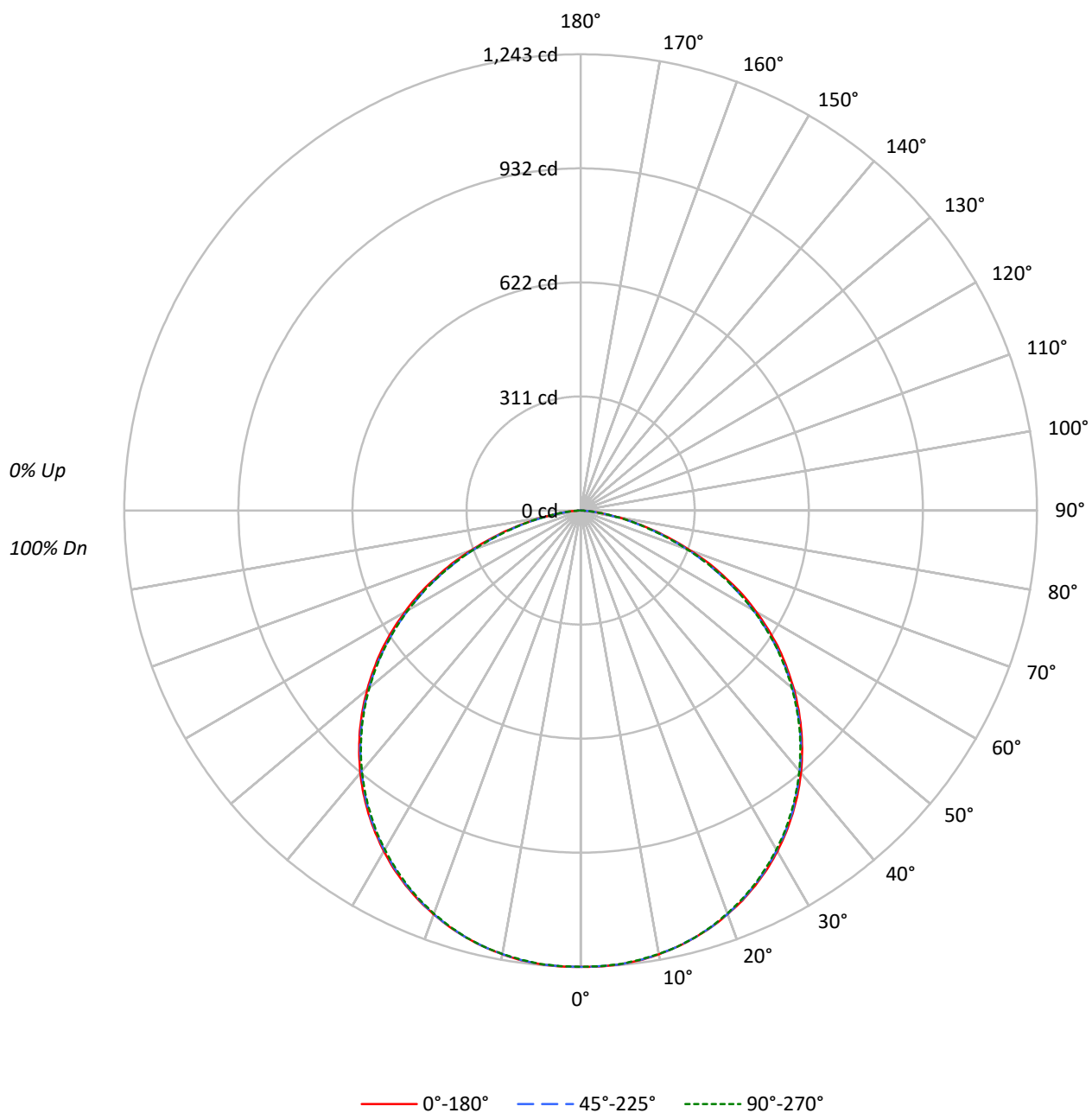
Lumens per Lamp: N/A
Luminaire Lumens: 3514.2 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.7
Input Voltage (V):
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: P974597

CATALOG NUMBER: FLR2-24-45HE-L930-CP125

Luminous Intensity Polar Plot



TEST NUMBER: P974597

CATALOG NUMBER: FLR2-24-45HE-L930-CP125

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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°	1673	1673	1673
5°	1676	1676	1675
10°	1677	1677	1676
15°	1678	1677	1677
20°	1676	1676	1673
25°	1673	1670	1667
30°	1666	1661	1657
35°	1655	1650	1644
40°	1640	1630	1627
45°	1619	1610	1604
50°	1589	1576	1572
55°	1551	1529	1527
60°	1486	1460	1460
65°	1391	1358	1362
70°	1251	1213	1209
75°	1051	1009	1004
80°	767	729	761
85°	434	400	406

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1619 cd/sqm

TEST NUMBER: P974597

CATALOG NUMBER: FLR2-24-45HE-L930-CP125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	3.4
10°-20°	340.0	9.7
20°-30°	518.4	14.8
30°-40°	628.1	17.9
40°-50°	652.4	18.6
50°-60°	583.6	16.6
60°-70°	425.4	12.1
70°-80°	210.7	6.0
80°-90°	37.7	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°	976.4	27.8
0°-40°	1604.5	45.7
0°-60°	2840.5	80.8
0°-90°	3514.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3514.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1243	1243	1243	1243	1243	
5°	1241	1242	1241	1241	1240	118
15°	1205	1204	1204	1205	1204	340
25°	1127	1126	1125	1124	1123	519
35°	1007	1006	1005	1003	1001	630
45°	851	849	846	844	843	656
55°	661	656	652	652	651	589
65°	437	433	426	428	428	433
75°	202	199	194	198	193	215
85°	28	26	26	26	26	39
90°	0	0	0	0	0	

TEST NUMBER: P974597

CATALOG NUMBER: FLR2-24-45HE-L930-CP125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1243.4	1243.4	1243.4	1243.4	1243.4
2.5°	1243.4	1242.9	1242.9	1243.4	1242.5
5°	1241.2	1241.6	1241.2	1241.2	1240.3
7.5°	1236.2	1235.8	1235.4	1235.8	1234.5
10°	1227.8	1227.8	1227.3	1227.8	1226.9
12.5°	1217.5	1217.5	1217.5	1218.0	1217.5
15°	1204.6	1204.1	1204.1	1205.0	1204.1
17.5°	1189.4	1189.0	1189.0	1188.5	1187.6
20°	1170.7	1170.7	1170.2	1169.8	1168.4
22.5°	1150.6	1150.1	1148.8	1148.8	1147.0
25°	1126.9	1125.6	1124.7	1124.3	1122.9
27.5°	1101.1	1099.3	1097.9	1097.1	1095.7
30°	1072.1	1070.3	1068.9	1067.6	1066.7
32.5°	1040.8	1039.9	1037.7	1037.3	1035.5
35°	1007.4	1006.0	1004.7	1002.9	1001.1
37.5°	971.7	970.3	967.2	966.3	965.0
40°	933.8	932.0	928.0	928.0	926.6
42.5°	893.2	891.4	888.7	886.9	886.0
45°	850.8	849.0	845.9	844.1	843.2
47.5°	805.7	804.4	800.8	799.5	798.1
50°	758.9	757.1	753.1	752.2	750.9
52.5°	709.8	708.9	703.6	703.1	701.8
55°	661.2	656.3	651.8	651.8	650.9
57.5°	607.6	604.1	598.3	598.3	597.4
60°	552.3	549.2	542.5	543.4	542.5
62.5°	498.3	491.6	485.4	488.1	485.8
65°	436.8	433.2	426.5	428.3	427.8
67.5°	380.6	373.9	367.6	371.2	369.4
70°	318.1	314.5	308.3	311.9	307.4
72.5°	259.2	256.1	249.8	253.9	249.4
75°	202.1	199.0	194.1	197.6	193.2
77.5°	148.1	145.9	141.4	145.0	145.9
80°	99.0	96.4	94.1	97.3	98.2
82.5°	58.0	56.2	55.3	55.8	58.0
85°	28.1	25.9	25.9	26.3	26.3
87.5°	7.6	6.7	7.6	8.0	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)