

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: P974151

Luminaire Tested: FLR2-24-65-L930-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974151
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: FLR2-24-65-L930-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L930-CP375
Ballast/Driver: -

Summary

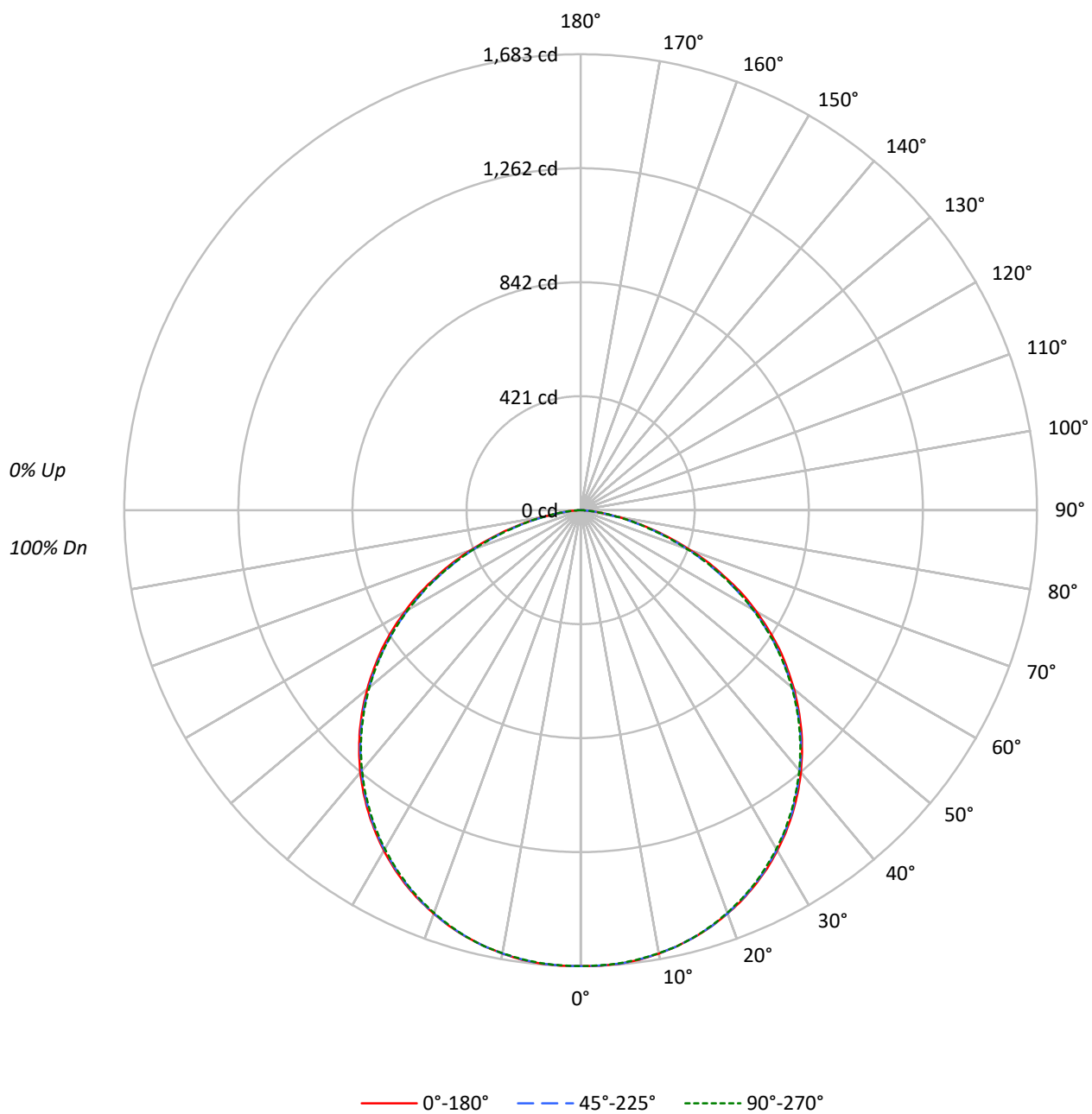
Lumens per Lamp: N/A
Luminaire Lumens: 4757.1 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
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					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°	2265	2265	2265
5°	2269	2269	2268
10°	2271	2270	2269
15°	2271	2271	2271
20°	2269	2268	2265
25°	2265	2260	2257
30°	2255	2248	2243
35°	2240	2234	2226
40°	2220	2206	2203
45°	2191	2179	2172
50°	2150	2134	2128
55°	2099	2070	2067
60°	2012	1976	1976
65°	1882	1838	1844
70°	1694	1642	1637
75°	1422	1366	1359
80°	1039	987	1030
85°	587	540	550

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2191 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	3.4
10°-20°	460.3	9.7
20°-30°	701.7	14.8
30°-40°	850.2	17.9
40°-50°	883.1	18.6
50°-60°	790.0	16.6
60°-70°	575.8	12.1
70°-80°	285.2	6.0
80°-90°	51.0	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°	1321.8	27.8
0°-40°	2172.0	45.7
0°-60°	3845.2	80.8
0°-90°	4757.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4757.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1683	1683	1683	1683	1683	
5°	1680	1681	1680	1680	1679	160
15°	1631	1630	1630	1631	1630	460
25°	1526	1524	1522	1522	1520	703
35°	1364	1362	1360	1358	1355	853
45°	1152	1149	1145	1143	1141	888
55°	895	888	882	882	881	797
65°	591	586	577	580	579	586
75°	274	269	263	268	262	292
85°	38	35	35	36	36	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1683.1	1683.1	1683.1	1683.1	1683.1
2.5°	1683.1	1682.5	1682.5	1683.1	1681.9
5°	1680.1	1680.7	1680.1	1680.1	1678.9
7.5°	1673.5	1672.9	1672.3	1672.9	1671.1
10°	1662.0	1662.0	1661.4	1662.0	1660.8
12.5°	1648.1	1648.1	1648.1	1648.7	1648.1
15°	1630.6	1630.0	1630.0	1631.2	1630.0
17.5°	1610.1	1609.5	1609.5	1608.9	1607.7
20°	1584.7	1584.7	1584.1	1583.5	1581.7
22.5°	1557.5	1556.9	1555.1	1555.1	1552.7
25°	1525.5	1523.7	1522.5	1521.9	1520.1
27.5°	1490.5	1488.1	1486.3	1485.1	1483.2
30°	1451.2	1448.8	1447.0	1445.2	1444.0
32.5°	1409.0	1407.8	1404.7	1404.1	1401.7
35°	1363.7	1361.9	1360.0	1357.6	1355.2
37.5°	1315.4	1313.5	1309.3	1308.1	1306.3
40°	1264.0	1261.6	1256.2	1256.2	1254.4
42.5°	1209.1	1206.6	1203.0	1200.6	1199.4
45°	1151.7	1149.3	1145.0	1142.6	1141.4
47.5°	1090.7	1088.9	1084.1	1082.2	1080.4
50°	1027.3	1024.9	1019.4	1018.2	1016.4
52.5°	960.8	959.6	952.4	951.8	950.0
55°	895.0	888.4	882.3	882.3	881.1
57.5°	822.5	817.7	809.9	809.9	808.7
60°	747.7	743.4	734.4	735.6	734.4
62.5°	674.6	665.5	657.1	660.7	657.7
65°	591.2	586.4	577.4	579.8	579.2
67.5°	515.2	506.1	497.6	502.5	500.1
70°	430.6	425.8	417.3	422.1	416.1
72.5°	350.9	346.7	338.2	343.6	337.6
75°	273.6	269.4	262.7	267.5	261.5
77.5°	200.5	197.5	191.4	196.3	197.5
80°	134.1	130.4	127.4	131.7	132.9
82.5°	78.5	76.1	74.9	75.5	78.5
85°	38.0	35.0	35.0	35.6	35.6
87.5°	10.3	9.1	10.3	10.9	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)