

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: P973774

Luminaire Tested: FLR2-22-60HE-L930-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973774
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: FLR2-22-60HE-L930-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

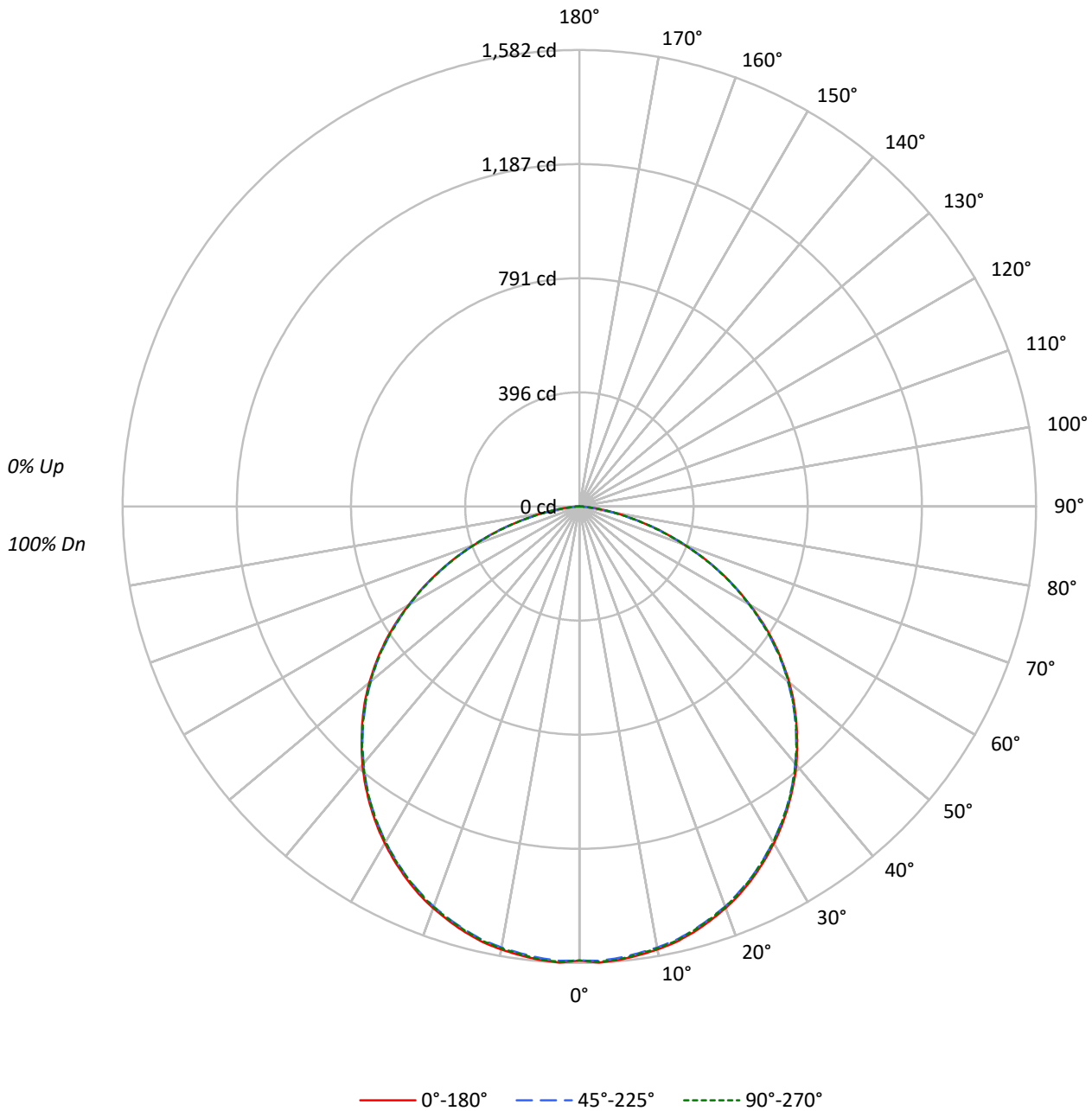
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4400.8 lumens
Efficiency: N/A
Efficacy: 92.8 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): 47.4
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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44														
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39														
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	39	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	40	34	29	27						27														
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4235	4235	4235
5°	4262	4243	4256
10°	4260	4242	4250
15°	4257	4238	4243
20°	4242	4225	4231
25°	4219	4202	4205
30°	4189	4171	4174
35°	4151	4135	4138
40°	4108	4087	4091
45°	4047	4028	4036
50°	3976	3947	3955
55°	3863	3831	3844
60°	3672	3657	3657
65°	3429	3422	3410
70°	3036	3051	3044
75°	2557	2537	2516
80°	1838	1807	1793
85°	960	960	929

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4047 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	3.4
10°-20°	428.5	9.7
20°-30°	651.2	14.8
30°-40°	787.1	17.9
40°-50°	817.0	18.6
50°-60°	730.4	16.6
60°-70°	531.1	12.1
70°-80°	261.1	5.9
80°-90°	45.3	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°	1228.8	27.9
0°-40°	2015.9	45.8
0°-60°	3563.3	81.0
0°-90°	4400.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4400.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1574	1574	1574	1574	1574	
5°	1578	1559	1571	1565	1576	150
15°	1528	1510	1521	1517	1523	431
25°	1421	1406	1415	1412	1416	655
35°	1264	1255	1259	1260	1260	791
45°	1063	1058	1058	1060	1060	820
55°	823	818	816	818	819	734
65°	538	540	538	538	536	531
75°	246	248	244	245	242	261
85°	31	32	31	31	30	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1573.7	1573.7	1573.7	1573.7	1573.7
2.5°	1582.4	1564.0	1575.6	1568.8	1579.5
5°	1577.6	1559.1	1570.8	1564.9	1575.6
7.5°	1568.8	1550.4	1562.0	1556.2	1564.9
10°	1559.1	1539.7	1552.3	1546.5	1555.2
12.5°	1546.5	1528.0	1539.7	1534.8	1542.6
15°	1528.0	1510.5	1521.2	1517.3	1523.1
17.5°	1505.6	1488.1	1498.8	1495.9	1500.8
20°	1481.3	1464.8	1475.5	1472.6	1477.5
22.5°	1454.1	1436.6	1446.3	1444.4	1448.3
25°	1421.1	1405.5	1415.2	1412.3	1416.2
27.5°	1386.1	1371.5	1379.3	1379.3	1381.2
30°	1348.2	1334.6	1342.3	1342.3	1343.3
32.5°	1307.4	1296.7	1301.5	1302.5	1302.5
35°	1263.6	1254.9	1258.7	1259.7	1259.7
37.5°	1217.9	1209.2	1212.1	1214.0	1214.0
40°	1169.3	1161.5	1163.5	1165.4	1164.5
42.5°	1116.8	1111.0	1112.0	1113.9	1113.9
45°	1063.4	1058.5	1058.5	1060.5	1060.5
47.5°	1008.9	1004.1	1002.1	1004.1	1004.1
50°	949.7	944.8	942.8	944.8	944.8
52.5°	887.4	882.6	882.6	882.6	883.6
55°	823.3	818.4	816.5	818.4	819.4
57.5°	755.2	753.3	750.4	751.4	748.4
60°	682.3	682.3	679.4	681.4	679.4
62.5°	611.4	613.3	610.4	610.4	608.5
65°	538.5	540.4	537.5	537.5	535.6
67.5°	463.6	466.6	462.7	462.7	460.7
70°	385.9	391.7	387.8	388.8	386.9
72.5°	315.9	318.8	314.9	314.9	313.0
75°	245.9	247.9	244.0	244.9	242.0
77.5°	176.9	179.8	175.9	176.9	175.9
80°	118.6	119.6	116.6	117.6	115.7
82.5°	69.0	70.0	69.0	68.0	67.1
85°	31.1	32.1	31.1	31.1	30.1
87.5°	7.8	7.8	7.8	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)