

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: P973888

Luminaire Tested: FLR2-22-60HE-L935-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973888
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-L935-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

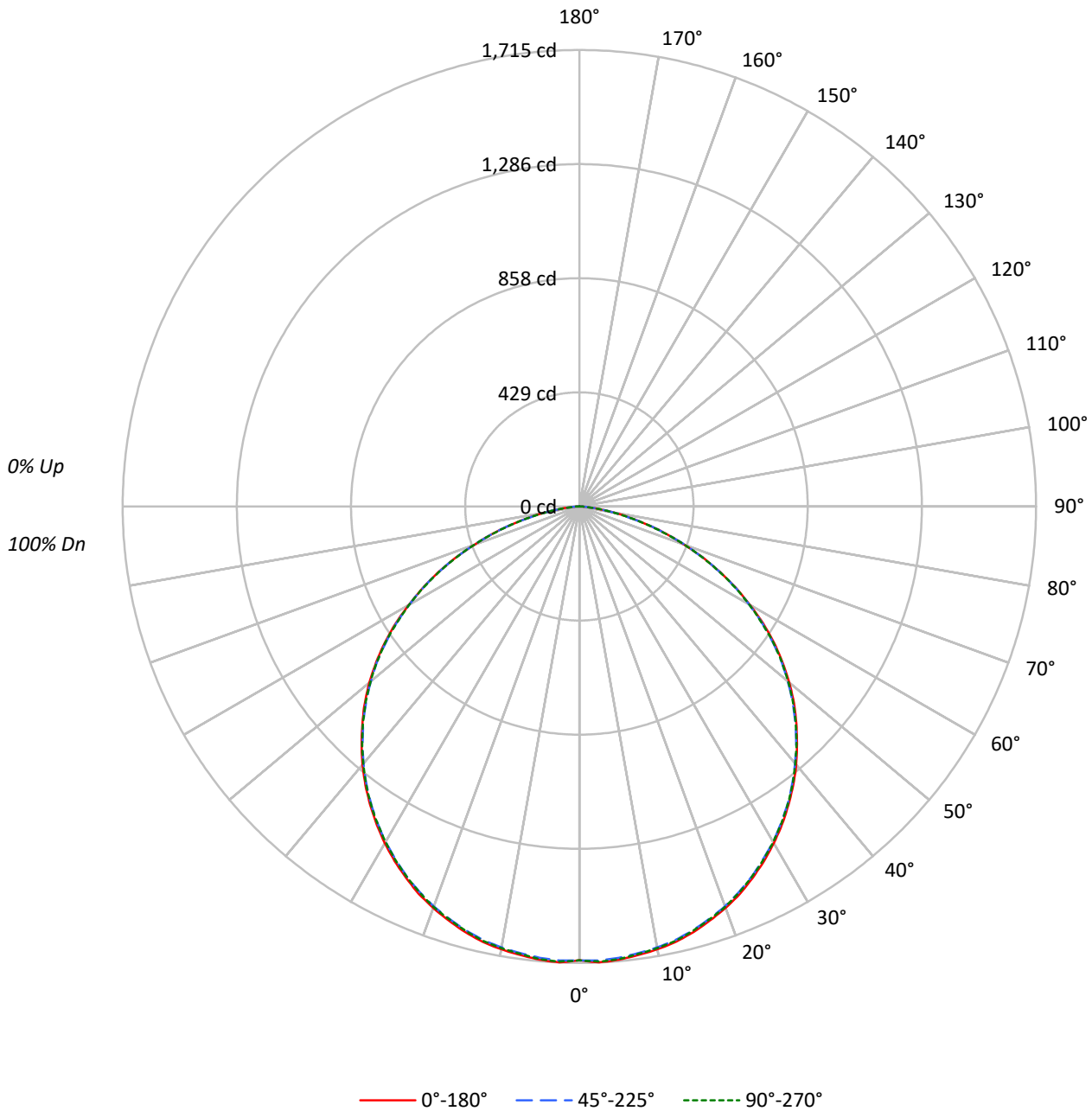
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4768.9 lumens
Efficiency: N/A
Efficacy: 100.6 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): 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									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	0																
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°	4589	4589	4589
5°	4618	4598	4612
10°	4617	4596	4605
15°	4613	4592	4598
20°	4597	4579	4585
25°	4572	4554	4556
30°	4539	4520	4523
35°	4498	4481	4484
40°	4451	4429	4432
45°	4385	4365	4373
50°	4308	4277	4286
55°	4185	4151	4166
60°	3979	3962	3962
65°	3715	3709	3696
70°	3290	3307	3298
75°	2771	2749	2727
80°	1991	1959	1942
85°	1041	1041	1010

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4385 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.5	3.4
10°-20°	464.4	9.7
20°-30°	705.7	14.8
30°-40°	853.0	17.9
40°-50°	885.3	18.6
50°-60°	791.5	16.6
60°-70°	575.5	12.1
70°-80°	283.0	5.9
80°-90°	49.1	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°	1331.5	27.9
0°-40°	2184.5	45.8
0°-60°	3861.3	81.0
0°-90°	4768.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4768.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1705	1705	1705	1705	1705	
5°	1710	1690	1702	1696	1707	162
15°	1656	1637	1648	1644	1650	467
25°	1540	1523	1534	1530	1535	710
35°	1369	1360	1364	1365	1365	857
45°	1152	1147	1147	1149	1149	889
55°	892	887	885	887	888	795
65°	584	586	582	582	580	575
75°	266	269	264	265	262	283
85°	34	35	34	34	33	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1705.3	1705.3	1705.3	1705.3	1705.3
2.5°	1714.7	1694.7	1707.4	1700.0	1711.6
5°	1709.5	1689.5	1702.1	1695.8	1707.4
7.5°	1700.0	1680.0	1692.6	1686.3	1695.8
10°	1689.5	1668.4	1682.1	1675.8	1685.3
12.5°	1675.8	1655.8	1668.4	1663.1	1671.6
15°	1655.8	1636.8	1648.4	1644.2	1650.5
17.5°	1631.5	1612.6	1624.2	1621.0	1626.3
20°	1605.2	1587.3	1598.9	1595.7	1601.0
22.5°	1575.7	1556.8	1567.3	1565.2	1569.4
25°	1539.9	1523.0	1533.6	1530.4	1534.6
27.5°	1502.0	1486.2	1494.6	1494.6	1496.7
30°	1460.9	1446.2	1454.6	1454.6	1455.6
32.5°	1416.7	1405.1	1410.3	1411.4	1411.4
35°	1369.3	1359.8	1364.0	1365.1	1365.1
37.5°	1319.8	1310.3	1313.4	1315.6	1315.6
40°	1267.1	1258.7	1260.8	1262.9	1261.8
42.5°	1210.2	1203.9	1205.0	1207.1	1207.1
45°	1152.3	1147.0	1147.0	1149.1	1149.1
47.5°	1093.3	1088.0	1085.9	1088.0	1088.0
50°	1029.1	1023.8	1021.7	1023.8	1023.8
52.5°	961.6	956.4	956.4	956.4	957.4
55°	892.1	886.9	884.8	886.9	887.9
57.5°	818.4	816.3	813.1	814.2	811.0
60°	739.4	739.4	736.2	738.4	736.2
62.5°	662.5	664.6	661.5	661.5	659.4
65°	583.5	585.6	582.5	582.5	580.4
67.5°	502.4	505.6	501.4	501.4	499.3
70°	418.2	424.5	420.3	421.3	419.2
72.5°	342.3	345.5	341.3	341.3	339.2
75°	266.5	268.6	264.4	265.4	262.3
77.5°	191.7	194.9	190.6	191.7	190.6
80°	128.5	129.6	126.4	127.4	125.3
82.5°	74.8	75.8	74.8	73.7	72.7
85°	33.7	34.8	33.7	33.7	32.7
87.5°	8.4	8.4	8.4	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)