

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: CORELITE

Report Number: P1057061

Luminaire Tested: CB3R-055D-830-1D-UNV-STD-W-8

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057061
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-8)
Test Lab: INNOVATION CENTER
Issue Date: 7/31/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: CB3R-055D-830-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE
3-INCH APERTURE
DOWNLIGHT 550 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4048.4 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.24' x L: 8' x H: 0')
CIE Type: Direct

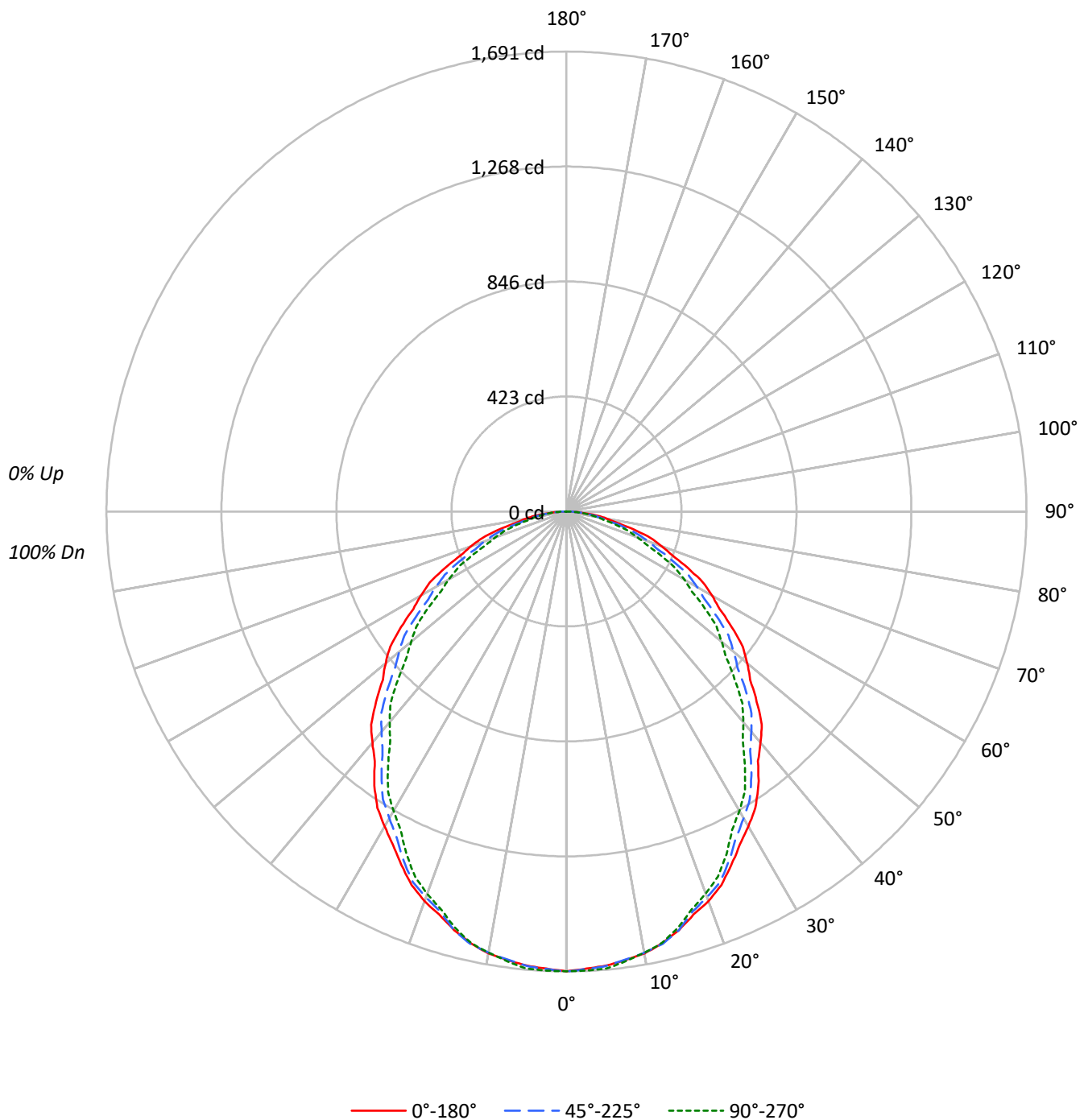
Input Watts (W): 32.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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				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
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9566	9566	9566
5°	9521	9528	9583
10°	9479	9465	9465
15°	9334	9334	9278
20°	9182	9088	9009
25°	8951	8838	8681
30°	8732	8505	8300
35°	8502	8187	7896
40°	8195	7805	7468
45°	7917	7466	7005
50°	7631	7061	6553
55°	7320	6668	6124
60°	6984	6264	5639
65°	6591	5804	5128
70°	6138	5265	4569
75°	5565	4621	4070
80°	4851	3874	3600
85°	3739	3271	3271

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7917 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	3.9
10°-20°	448.2	11.1
20°-30°	651.2	16.1
30°-40°	740.4	18.3
40°-50°	718.8	17.8
50°-60°	606.8	15.0
60°-70°	431.8	10.7
70°-80°	230.7	5.7
80°-90°	60.9	1.5
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°	1259.0	31.1
0°-40°	1999.4	49.4
0°-60°	3325.0	82.1
0°-90°	4048.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4048.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1691	1691	1691	1691	1691	
5°	1677	1698	1678	1676	1687	159
15°	1594	1608	1594	1584	1584	449
25°	1434	1439	1416	1397	1391	661
35°	1231	1219	1185	1150	1143	767
45°	990	974	933	888	876	763
55°	742	722	676	633	621	664
65°	492	475	434	395	383	488
75°	255	240	211	190	186	271
85°	58	53	50	50	50	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1691.0	1691.0	1691.0	1691.0	1691.0
2.5°	1682.3	1699.2	1684.2	1686.3	1690.0
5°	1676.6	1697.7	1677.8	1675.6	1687.4
7.5°	1663.6	1682.8	1662.1	1657.3	1667.9
10°	1650.1	1671.3	1647.7	1641.9	1647.7
12.5°	1626.1	1648.2	1629.5	1619.7	1624.7
15°	1593.7	1607.8	1593.7	1584.1	1584.1
17.5°	1554.1	1568.9	1542.3	1535.5	1532.9
20°	1525.2	1538.2	1509.6	1499.9	1496.4
22.5°	1486.8	1498.8	1475.0	1458.6	1454.1
25°	1434.0	1438.7	1415.9	1396.6	1390.7
27.5°	1380.9	1382.1	1350.9	1327.4	1319.6
30°	1336.7	1337.9	1301.9	1276.5	1270.6
32.5°	1292.5	1289.0	1254.8	1224.7	1220.7
35°	1231.0	1219.3	1185.4	1150.4	1143.3
37.5°	1156.8	1149.7	1109.7	1074.6	1064.1
40°	1109.7	1098.0	1056.9	1021.8	1011.2
42.5°	1062.6	1049.0	1006.9	968.0	956.5
45°	989.6	974.3	933.2	888.4	875.5
47.5°	916.1	899.4	854.1	810.8	796.5
50°	867.1	849.5	802.3	759.9	744.6
52.5°	817.1	798.6	751.3	708.1	695.6
55°	742.2	722.2	676.1	632.6	620.9
57.5°	667.3	647.5	601.7	560.5	546.4
60°	617.3	598.5	553.6	512.5	498.4
62.5°	566.4	548.5	504.6	464.5	451.3
65°	492.4	474.8	433.6	394.9	383.1
67.5°	419.1	404.1	363.4	327.9	318.5
70°	371.1	357.0	318.3	285.6	276.2
72.5°	325.0	310.0	273.1	245.3	238.8
75°	254.6	240.5	211.4	189.7	186.2
77.5°	190.2	178.7	153.5	141.2	139.3
80°	148.9	138.4	118.9	110.5	110.5
82.5°	110.5	101.8	89.1	85.5	85.5
85°	57.6	52.9	50.4	50.4	50.4
87.5°	17.3	17.3	16.3	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)