

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: P1057039

Luminaire Tested: CB2-D-085U-055D-840-1D-UNV-STD-W-8

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057039
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-13, G2-2312-242-18)
Test Lab: INNOVATION CENTER
Issue Date: 7/31/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: CB2-D-085U-055D-840-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE, DIFFUSER DUST COVER UPLIGHT
2-INCH APERTURE
DOWNLIGHT 550 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10992.2 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')
CIE Type: Semi-Indirect

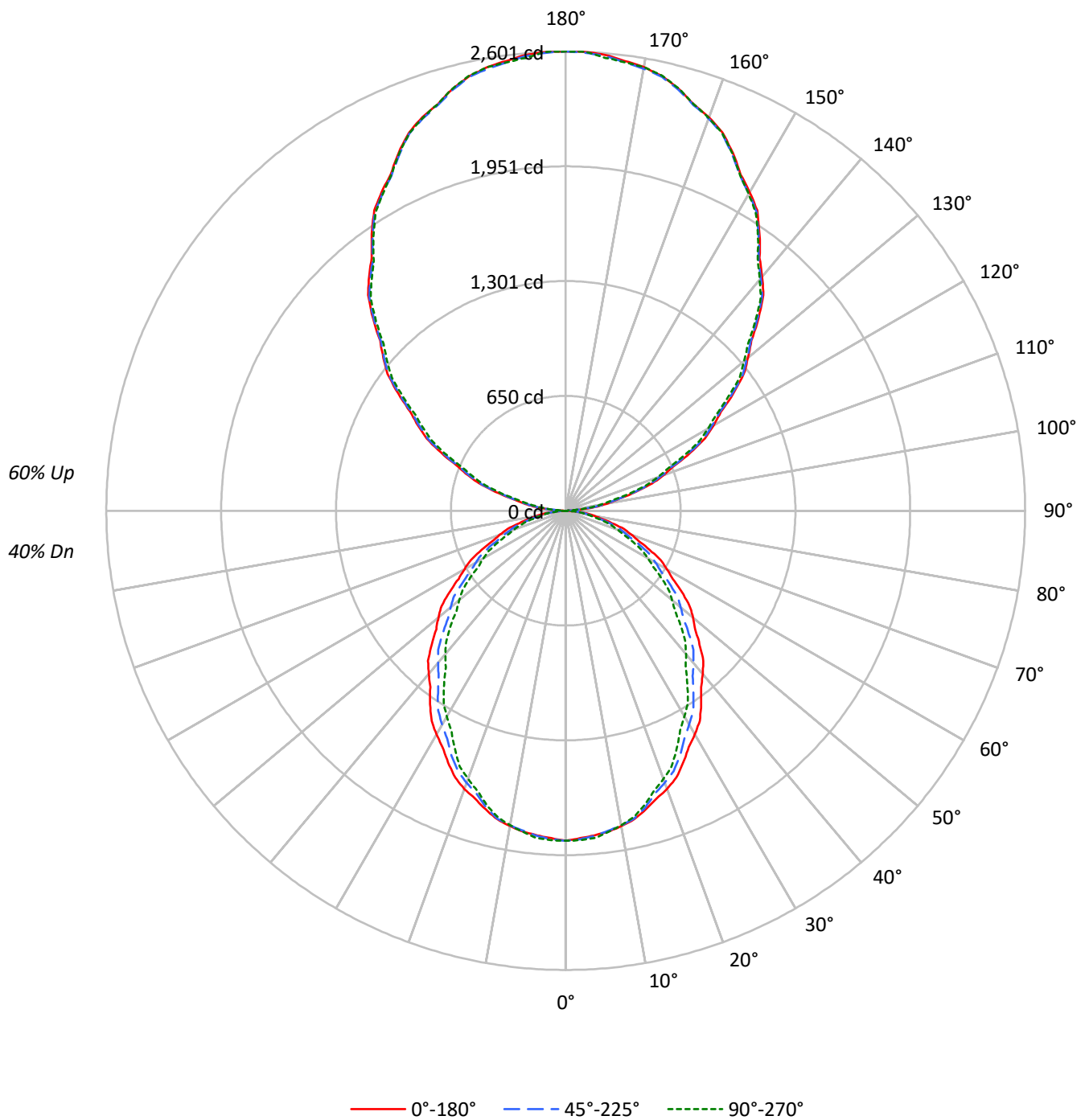
Input Watts (W): 94.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	40
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	37	35	34
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	33	30	29
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	17	15
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14
10	46	34	27	22	42	31	25	21	26	22	18	22	18	15	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16277	16277	16277
5°	16138	16164	16277
10°	16047	16009	15996
15°	15793	15689	15561
20°	15544	15199	14988
25°	15126	14701	14288
30°	14708	14060	13527
35°	14226	13404	12765
40°	13715	12788	12039
45°	13201	12143	11333
50°	12738	11517	10645
55°	12168	10865	9995
60°	11516	10245	9348
65°	10823	9555	8700
70°	10058	8782	7870
75°	9149	7944	7127
80°	8180	6961	6459
85°	6295	5715	4716

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13201 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.8	1.6
10°-20°	489.9	4.5
20°-30°	704.5	6.4
30°-40°	791.8	7.2
40°-50°	764.9	7.0
50°-60°	646.3	5.9
60°-70°	464.2	4.2
70°-80°	253.7	2.3
80°-90°	67.5	0.6
90°-100°	100.5	0.9
100°-110°	414.4	3.8
110°-120°	752.3	6.8
120°-130°	1023.7	9.3
130°-140°	1181.8	10.8
140°-150°	1190.9	10.8
150°-160°	1027.7	9.3
160°-170°	696.5	6.3
170°-180°	245.7	2.2
0°-30°	1370.2	12.5
0°-40°	2162.0	19.7
0°-60°	3573.1	32.5
0°-90°	4358.5	39.7
90°-120°	1267.2	11.5
90°-150°	4663.7	42.4
90°-180°	6634.0	60.4
0°-180°	10992.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1869	1869	1869	1869	1869	
5°	1846	1871	1849	1849	1862	175
15°	1752	1767	1740	1723	1726	494
25°	1574	1576	1530	1495	1487	725
35°	1338	1323	1261	1212	1201	836
45°	1072	1050	986	934	920	828
55°	801	772	716	671	658	716
65°	525	506	464	431	422	521
75°	272	255	236	217	212	291
85°	63	59	57	50	47	75
90°	0	0	2	0	2	6
95°	97	86	81	63	63	113
105°	410	404	394	371	367	435
115°	779	777	763	740	738	769
125°	1158	1170	1146	1122	1124	1034
135°	1544	1562	1536	1508	1518	1189
145°	1913	1935	1905	1883	1897	1195
155°	2238	2260	2228	2214	2232	1029
165°	2473	2499	2467	2454	2475	697
175°	2591	2619	2585	2569	2575	246
180°	2601	2601	2601	2601	2601	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1869.0	1869.0	1869.0	1869.0	1869.0
2.5°	1856.4	1878.8	1862.2	1864.5	1867.9
5°	1846.1	1871.3	1849.0	1849.3	1861.9
7.5°	1833.0	1856.8	1828.7	1823.5	1835.3
10°	1814.6	1838.4	1810.4	1800.5	1808.9
12.5°	1790.6	1813.3	1786.3	1770.7	1778.0
15°	1751.7	1767.1	1740.2	1723.1	1725.9
17.5°	1709.3	1718.8	1680.1	1665.7	1662.9
20°	1677.3	1685.7	1640.0	1620.0	1617.2
22.5°	1636.0	1643.3	1595.4	1570.7	1566.8
25°	1574.2	1575.6	1529.9	1495.3	1486.9
27.5°	1509.5	1505.1	1454.3	1413.4	1402.5
30°	1462.6	1457.0	1398.2	1355.0	1345.2
32.5°	1412.2	1402.1	1343.2	1296.6	1286.9
35°	1338.1	1322.7	1260.8	1211.9	1200.7
37.5°	1259.1	1241.7	1181.0	1127.7	1115.1
40°	1206.4	1186.8	1124.9	1071.6	1059.0
42.5°	1153.8	1131.9	1068.8	1015.5	1001.8
45°	1071.9	1049.5	986.0	934.2	920.2
47.5°	994.0	965.5	903.9	852.3	838.3
50°	940.2	909.5	850.1	799.7	785.7
52.5°	885.3	853.4	796.3	748.2	734.2
55°	801.4	772.0	715.6	670.9	658.3
57.5°	718.4	690.2	638.6	595.9	583.6
60°	661.2	637.4	588.2	547.9	536.7
62.5°	606.2	584.7	537.8	500.9	489.7
65°	525.2	505.6	463.7	430.6	422.2
67.5°	446.5	426.9	393.0	363.3	353.8
70°	395.0	375.4	344.9	317.5	309.1
72.5°	345.8	325.0	300.2	275.2	269.0
75°	271.9	255.1	236.1	217.4	211.8
77.5°	206.7	190.4	176.6	163.4	162.0
80°	163.1	149.2	138.8	130.2	128.8
82.5°	121.9	111.3	104.5	98.2	97.9
85°	63.0	58.8	57.2	50.0	47.2
87.5°	18.3	18.3	16.4	13.7	14.1
90°	0.0	0.0	2.0	0.0	2.0
92.5°	24.3	21.2	19.9	13.0	15.0
95°	97.4	85.5	81.2	62.9	62.9
97.5°	183.8	171.9	165.6	146.8	142.8
100°	245.5	233.6	227.2	206.9	202.9
102.5°	308.8	303.3	292.2	270.2	266.2
105°	409.8	403.9	393.6	371.2	367.2
107.5°	513.7	514.9	499.5	481.1	475.6
110°	588.4	586.4	574.2	555.8	551.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	664.7	661.1	648.9	630.5	626.5
115°	779.1	777.1	762.9	740.5	738.5
117.5°	887.9	894.2	877.3	853.8	853.0
120°	965.8	973.7	953.6	933.2	929.3
122.5°	1042.1	1051.6	1031.5	1008.0	1008.8
125°	1158.5	1170.4	1146.4	1122.1	1124.0
127.5°	1270.9	1285.6	1263.2	1238.5	1240.9
130°	1347.2	1365.1	1341.1	1314.8	1318.8
132.5°	1425.1	1443.0	1419.0	1391.2	1398.4
135°	1544.0	1561.9	1535.9	1507.7	1517.7
137.5°	1656.0	1673.9	1645.5	1621.8	1633.7
140°	1730.7	1748.5	1718.5	1696.5	1708.4
142.5°	1803.7	1824.8	1793.2	1769.6	1784.7
145°	1913.3	1935.1	1905.2	1883.2	1897.1
147.5°	2017.2	2039.0	2008.7	1987.5	2001.8
150°	2083.7	2105.6	2073.6	2055.7	2071.6
152.5°	2145.4	2170.4	2136.9	2119.1	2139.7
155°	2237.9	2259.8	2227.8	2214.0	2231.8
157.5°	2318.3	2343.7	2311.8	2299.9	2314.2
160°	2371.8	2395.6	2363.7	2351.9	2367.8
162.5°	2412.4	2437.8	2407.6	2394.2	2413.2
165°	2473.3	2499.1	2467.2	2453.5	2475.3
167.5°	2521.2	2548.5	2516.3	2502.2	2524.4
170°	2550.4	2576.2	2542.3	2526.6	2550.4
172.5°	2569.9	2597.2	2561.8	2545.9	2561.8
175°	2591.0	2618.7	2584.9	2568.8	2574.7
177.5°	2601.1	2623.3	2596.2	2582.1	2601.1
180°	2601.1	2601.1	2601.1	2601.1	2601.1

(END OF REPORT)