

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: P1057044

Luminaire Tested: CB2-D-085U-120D-835-1D-UNV-STD-W-8

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057044
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-120D-835-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE, DIFFUSER DUST COVER UPLIGHT
2-INCH APERTURE
DOWNLIGHT 1200 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16321.6 lumens
Efficiency: N/A
Efficacy: 111.8 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: General Diffuse

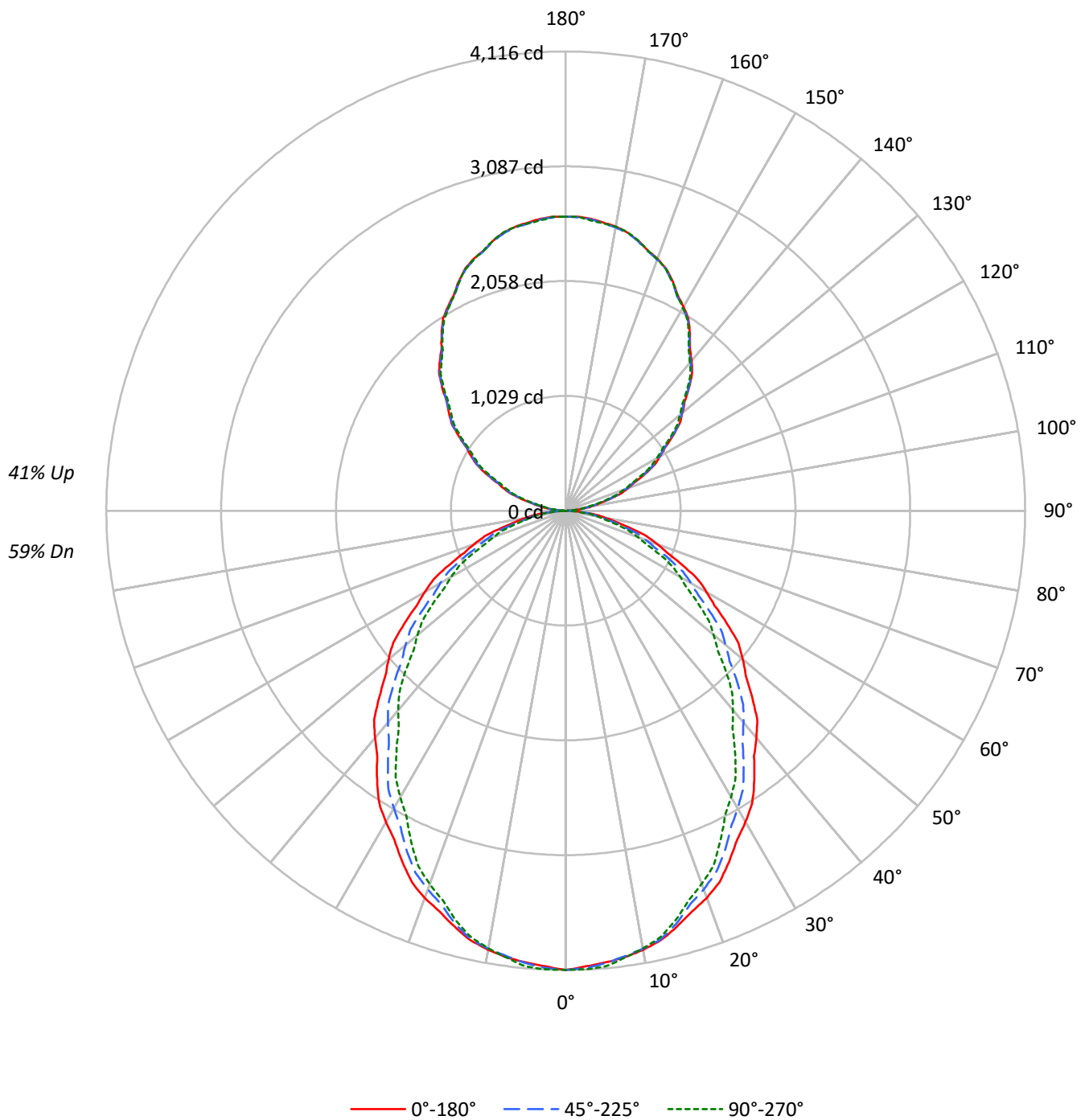
Input Watts (W): 146
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55
2	91	84	78	73	85	78	73	69	68	64	61	59	56	53	51	48	46
3	83	74	67	61	78	69	63	58	61	56	51	52	49	45	45	42	40
4	76	66	58	52	71	62	54	49	54	48	44	47	43	39	40	37	34
5	70	59	50	44	65	55	48	42	48	43	38	42	38	34	36	33	30
6	65	53	45	39	60	50	42	37	44	38	33	38	34	30	33	30	27
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	30	27	24
8	56	43	36	30	52	41	34	29	36	31	26	32	27	24	28	24	21
9	52	40	32	27	49	38	31	26	33	28	24	30	25	22	26	22	19
10	49	37	29	24	46	35	28	23	31	25	22	27	23	20	24	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	35845	35845	35845
5°	35541	35596	35845
10°	35339	35255	35228
15°	34780	34552	34268
20°	34232	33473	33005
25°	33312	32374	31465
30°	32390	30963	29791
35°	31328	29519	28111
40°	30203	28162	26513
45°	29073	26744	24958
50°	28053	25364	23441
55°	26797	23926	22012
60°	25361	22561	20586
65°	23833	21041	19158
70°	22150	19339	17335
75°	20148	17497	15693
80°	18019	15331	14223
85°	13859	12600	10392

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 29073 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.1	2.4
10°-20°	1079.0	6.6
20°-30°	1551.4	9.5
30°-40°	1743.7	10.7
40°-50°	1684.4	10.3
50°-60°	1423.2	8.7
60°-70°	1022.3	6.3
70°-80°	558.7	3.4
80°-90°	148.5	0.9
90°-100°	101.9	0.6
100°-110°	420.0	2.6
110°-120°	762.5	4.7
120°-130°	1037.6	6.4
130°-140°	1197.8	7.3
140°-150°	1207.0	7.4
150°-160°	1041.6	6.4
160°-170°	706.0	4.3
170°-180°	249.0	1.5
0°-30°	3017.4	18.5
0°-40°	4761.1	29.2
0°-60°	7868.8	48.2
0°-90°	9598.3	58.8
90°-120°	1284.4	7.9
90°-150°	4726.7	29.0
90°-180°	6723.0	41.2
0°-180°	16321.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4116	4116	4116	4116	4116	
5°	4066	4121	4072	4072	4100	386
15°	3858	3892	3832	3795	3801	1087
25°	3467	3470	3369	3293	3274	1596
35°	2947	2913	2777	2669	2644	1841
45°	2361	2311	2172	2057	2026	1824
55°	1765	1700	1576	1478	1450	1578
65°	1157	1114	1021	948	930	1147
75°	599	562	520	479	466	641
85°	139	129	126	110	104	165
90°	0	0	2	0	2	9
95°	99	87	82	64	64	115
105°	415	409	399	376	372	441
115°	790	788	773	750	748	779
125°	1174	1186	1162	1137	1139	1048
135°	1565	1583	1557	1528	1538	1205
145°	1939	1961	1931	1909	1923	1212
155°	2268	2290	2258	2244	2262	1043
165°	2507	2533	2500	2487	2509	706
175°	2626	2654	2620	2604	2610	249
180°	2636	2636	2636	2636	2636	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4116.0	4116.0	4116.0	4116.0	4116.0
2.5°	4088.3	4137.6	4100.9	4106.1	4113.5
5°	4065.6	4121.1	4071.9	4072.5	4100.3
7.5°	4036.6	4089.0	4027.2	4015.8	4041.7
10°	3996.3	4048.7	3986.8	3965.2	3983.7
12.5°	3943.3	3993.2	3933.9	3899.6	3915.6
15°	3857.6	3891.5	3832.4	3794.7	3800.9
17.5°	3764.3	3785.3	3700.0	3668.4	3662.2
20°	3693.7	3712.2	3611.8	3567.5	3561.3
22.5°	3602.9	3619.0	3513.4	3459.0	3450.4
25°	3466.8	3469.9	3369.1	3293.0	3274.5
27.5°	3324.3	3314.5	3202.7	3112.6	3088.6
30°	3221.0	3208.6	3079.1	2984.1	2962.5
32.5°	3110.0	3087.8	2958.1	2855.5	2833.9
35°	2946.8	2912.9	2776.6	2668.9	2644.2
37.5°	2772.8	2734.6	2600.7	2483.5	2455.8
40°	2656.8	2613.7	2477.2	2359.9	2332.2
42.5°	2540.8	2492.8	2353.6	2236.3	2206.1
45°	2360.6	2311.3	2171.5	2057.3	2026.5
47.5°	2189.1	2126.3	1990.6	1877.0	1846.2
50°	2070.6	2002.8	1872.1	1761.1	1730.2
52.5°	1949.6	1879.3	1753.6	1647.6	1616.8
55°	1764.9	1700.2	1575.8	1477.5	1449.8
57.5°	1582.1	1519.9	1406.3	1312.4	1285.2
60°	1456.1	1403.7	1295.3	1206.5	1181.9
62.5°	1335.0	1287.6	1184.4	1103.1	1078.5
65°	1156.6	1113.5	1021.1	948.2	929.7
67.5°	983.3	940.2	865.4	800.0	779.1
70°	869.9	826.7	759.5	699.2	680.8
72.5°	761.4	715.8	661.2	606.1	592.5
75°	598.8	561.8	520.0	478.8	466.4
77.5°	455.1	419.3	388.9	359.8	356.8
80°	359.3	328.5	305.7	286.7	283.6
82.5°	268.5	245.1	230.1	216.2	215.6
85°	138.7	129.4	126.1	110.2	104.0
87.5°	40.3	40.3	35.7	30.3	30.7
90°	0.0	0.0	2.1	0.0	2.1
92.5°	24.7	21.5	20.2	13.2	15.2
95°	98.7	86.6	82.3	63.7	63.7
97.5°	186.3	174.2	167.8	148.8	144.8
100°	248.8	236.8	230.3	209.7	205.6
102.5°	313.0	307.3	296.1	273.8	269.8
105°	415.4	409.4	398.9	376.2	372.2
107.5°	520.7	521.9	506.3	487.6	482.0
110°	596.3	594.3	582.0	563.4	559.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	673.7	670.0	657.6	639.0	635.0
115°	789.6	787.6	773.2	750.5	748.5
117.5°	899.9	906.3	889.2	865.3	864.5
120°	978.8	986.9	966.5	945.8	941.8
122.5°	1056.1	1065.8	1045.5	1021.6	1022.4
125°	1174.2	1186.2	1161.8	1137.2	1139.2
127.5°	1288.1	1303.0	1280.3	1255.3	1257.7
130°	1365.4	1383.5	1359.3	1332.6	1336.6
132.5°	1444.4	1462.5	1438.2	1410.0	1417.2
135°	1564.9	1583.0	1556.7	1528.1	1538.2
137.5°	1678.4	1696.5	1667.7	1643.7	1655.8
140°	1754.1	1772.2	1741.7	1719.4	1731.5
142.5°	1828.1	1849.4	1817.4	1793.5	1808.8
145°	1939.1	1961.3	1930.9	1908.6	1922.7
147.5°	2044.4	2066.6	2035.8	2014.3	2028.8
150°	2111.9	2134.0	2101.6	2083.5	2099.5
152.5°	2174.4	2199.7	2165.8	2147.7	2168.6
155°	2268.2	2290.3	2257.9	2243.9	2262.0
157.5°	2349.6	2375.3	2343.0	2331.0	2345.5
160°	2403.9	2428.0	2395.7	2383.7	2399.8
162.5°	2445.0	2470.8	2440.1	2426.5	2445.8
165°	2506.7	2532.8	2500.5	2486.6	2508.8
167.5°	2555.2	2583.0	2550.3	2536.0	2558.5
170°	2584.8	2611.0	2576.6	2560.7	2584.8
172.5°	2604.6	2632.3	2596.4	2580.3	2596.4
175°	2626.0	2654.1	2619.8	2603.5	2609.5
177.5°	2636.3	2658.8	2631.3	2617.0	2636.3
180°	2636.3	2636.3	2636.3	2636.3	2636.3

(END OF REPORT)