

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: P1057041

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

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057041
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-085D-835-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE, DIFFUSER DUST COVER UPLIGHT
2-INCH APERTURE
DOWNLIGHT 850 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: 13465.8 lumens
Efficiency: N/A
Efficacy: 118.7 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

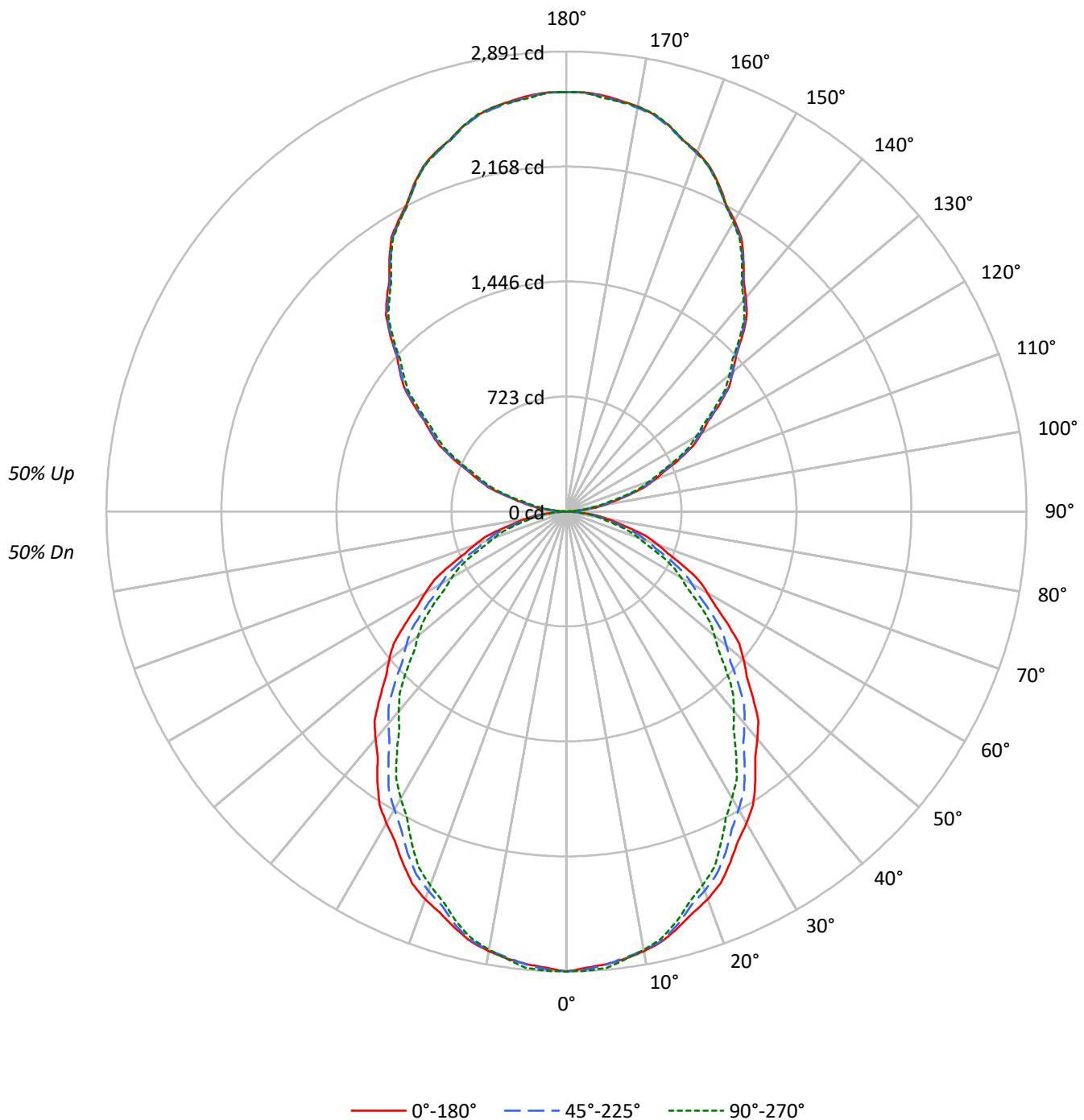
Input Watts (W): 113.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	98	94	90	86	90	87	83	80	73	71	69	61	60	58	50	49	48
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	41
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35
4	75	64	56	50	69	59	53	47	51	46	41	43	39	36	35	32	30
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26
6	63	51	43	38	58	48	41	35	41	36	31	35	31	27	29	26	23
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	27	23	21
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	19	17
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25180	25180	25180
5°	24967	25005	25179
10°	24825	24766	24746
15°	24431	24272	24072
20°	24047	23514	23185
25°	23401	22742	22103
30°	22752	21751	20927
35°	22007	20736	19748
40°	21217	19782	18625
45°	20422	18787	17533
50°	19706	17817	16467
55°	18824	16808	15462
60°	17814	15848	14460
65°	16743	14781	13458
70°	15558	13587	12176
75°	14152	12292	11026
80°	12658	10772	9995
85°	9732	8853	7304

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 20422 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.9	2.0
10°-20°	757.9	5.6
20°-30°	1089.8	8.1
30°-40°	1224.9	9.1
40°-50°	1183.3	8.8
50°-60°	999.8	7.4
60°-70°	718.1	5.3
70°-80°	392.5	2.9
80°-90°	104.4	0.8
90°-100°	101.9	0.8
100°-110°	420.0	3.1
110°-120°	762.5	5.7
120°-130°	1037.6	7.7
130°-140°	1197.8	8.9
140°-150°	1207.0	9.0
150°-160°	1041.6	7.7
160°-170°	706.0	5.2
170°-180°	249.0	1.8
0°-30°	2119.6	15.7
0°-40°	3344.5	24.8
0°-60°	5527.6	41.0
0°-90°	6742.6	50.1
90°-120°	1284.4	9.5
90°-150°	4726.7	35.1
90°-180°	6723.0	49.9
0°-180°	13465.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2891	2891	2891	2891	2891	
5°	2856	2895	2860	2861	2880	271
15°	2710	2734	2692	2666	2670	764
25°	2435	2438	2367	2313	2300	1121
35°	2070	2046	1950	1875	1858	1293
45°	1658	1624	1525	1445	1424	1281
55°	1240	1194	1107	1038	1018	1108
65°	812	782	717	666	653	806
75°	421	395	365	336	328	450
85°	97	91	89	77	73	116
90°	0	0	2	0	2	7
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°	2891.4	2891.4	2891.4	2891.4	2891.4
2.5°	2871.9	2906.5	2880.8	2884.4	2889.6
5°	2856.0	2894.9	2860.4	2860.8	2880.3
7.5°	2835.6	2872.4	2829.0	2821.0	2839.1
10°	2807.3	2844.1	2800.6	2785.4	2798.4
12.5°	2770.1	2805.1	2763.4	2739.3	2750.6
15°	2709.8	2733.7	2692.1	2665.7	2670.0
17.5°	2644.3	2659.0	2599.1	2576.9	2572.6
20°	2594.7	2607.7	2537.2	2506.1	2501.7
22.5°	2531.0	2542.2	2468.1	2429.9	2423.8
25°	2435.3	2437.5	2366.7	2313.3	2300.3
27.5°	2335.2	2328.3	2249.8	2186.5	2169.6
30°	2262.6	2254.0	2163.0	2096.2	2081.1
32.5°	2184.7	2169.1	2078.0	2005.9	1990.8
35°	2070.0	2046.2	1950.5	1874.8	1857.5
37.5°	1947.8	1921.0	1826.9	1744.6	1725.1
40°	1866.3	1836.0	1740.1	1657.8	1638.3
42.5°	1784.9	1751.1	1653.4	1571.0	1549.7
45°	1658.2	1623.6	1525.4	1445.2	1423.6
47.5°	1537.8	1493.6	1398.3	1318.6	1296.9
50°	1454.5	1406.9	1315.1	1237.1	1215.4
52.5°	1369.5	1320.2	1231.8	1157.4	1135.7
55°	1239.8	1194.3	1107.0	1037.9	1018.4
57.5°	1111.4	1067.7	987.9	921.9	902.8
60°	1022.8	986.0	909.9	847.5	830.2
62.5°	937.8	904.5	832.0	774.9	757.6
65°	812.5	782.2	717.3	666.1	653.1
67.5°	690.7	660.4	607.9	562.0	547.3
70°	611.0	580.7	533.6	491.2	478.2
72.5°	534.9	502.8	464.5	425.7	416.2
75°	420.6	394.7	365.3	336.3	327.7
77.5°	319.7	294.6	273.2	252.8	250.6
80°	252.4	230.7	214.8	201.4	199.3
82.5°	188.6	172.2	161.6	151.9	151.4
85°	97.4	90.9	88.6	77.4	73.1
87.5°	28.3	28.3	25.2	21.3	21.7
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)