

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: P1057042

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

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057042
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-840-1D-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13286.3 lumens
Efficiency: N/A
Efficacy: 117.2 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

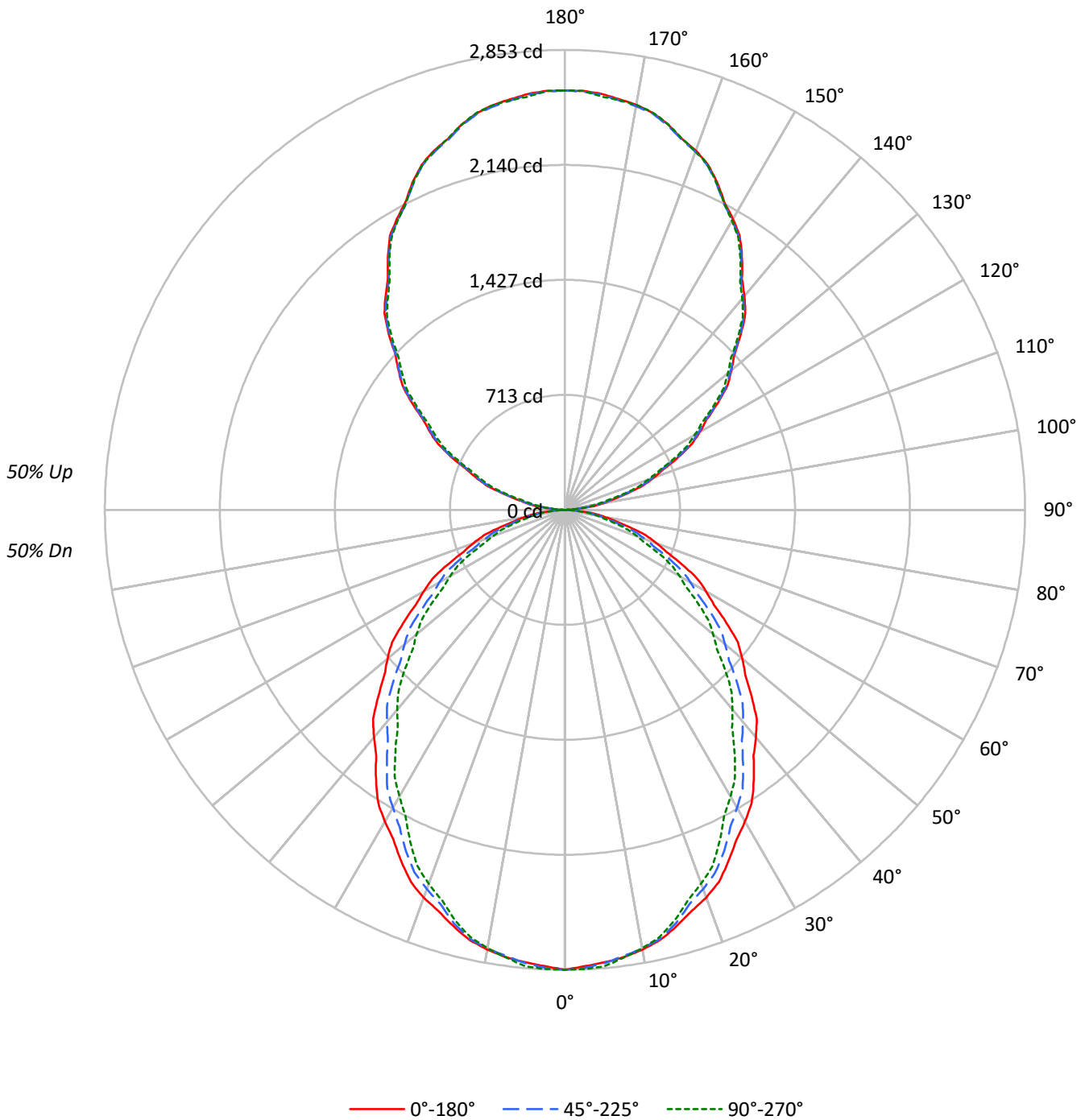
Input Watts (W): 113.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50				
1	98	94	90	86	90	87	83	80	73	71	69	61	60	58	50	49	48	43				
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	41	36				
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	31				
4	75	64	56	50	69	59	53	47	51	46	41	43	39	36	35	32	30	26				
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23				
6	63	51	43	38	58	48	41	35	41	36	31	35	31	27	29	26	23	20				
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	27	23	21	18				
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16				
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	19	17	15				
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24844	24844	24844
5°	24634	24672	24844
10°	24493	24436	24416
15°	24106	23948	23751
20°	23726	23200	22876
25°	23089	22438	21808
30°	22450	21461	20648
35°	21713	20460	19484
40°	20935	19518	18377
45°	20150	18537	17299
50°	19444	17579	16247
55°	18573	16583	15256
60°	17578	15637	14268
65°	16520	14583	13279
70°	15351	13403	12013
75°	13964	12127	10878
80°	12488	10627	9860
85°	9602	8733	7204

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20150 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.3	2.0
10°-20°	747.8	5.6
20°-30°	1075.3	8.1
30°-40°	1208.6	9.1
40°-50°	1167.5	8.8
50°-60°	986.4	7.4
60°-70°	708.5	5.3
70°-80°	387.3	2.9
80°-90°	103.0	0.8
90°-100°	100.5	0.8
100°-110°	414.4	3.1
110°-120°	752.3	5.7
120°-130°	1023.7	7.7
130°-140°	1181.8	8.9
140°-150°	1190.9	9.0
150°-160°	1027.7	7.7
160°-170°	696.5	5.2
170°-180°	245.7	1.8
0°-30°	2091.4	15.7
0°-40°	3300.0	24.8
0°-60°	5453.9	41.0
0°-90°	6652.7	50.1
90°-120°	1267.2	9.5
90°-150°	4663.7	35.1
90°-180°	6634.0	49.9
0°-180°	13286.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2853	2853	2853	2853	2853	
5°	2818	2856	2822	2823	2842	268
15°	2674	2697	2656	2630	2634	754
25°	2403	2405	2335	2282	2270	1106
35°	2042	2019	1924	1850	1833	1276
45°	1636	1602	1505	1426	1405	1264
55°	1223	1178	1092	1024	1005	1094
65°	802	772	708	657	644	795
75°	415	389	360	332	323	444
85°	96	90	87	76	72	114
90°	0	0	2	0	2	7
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°	2852.8	2852.8	2852.8	2852.8	2852.8
2.5°	2833.6	2867.8	2842.4	2846.0	2851.1
5°	2817.9	2856.3	2822.3	2822.7	2841.9
7.5°	2797.8	2834.1	2791.2	2783.3	2801.3
10°	2769.8	2806.1	2763.3	2748.3	2761.1
12.5°	2733.1	2767.7	2726.6	2702.8	2713.9
15°	2673.7	2697.2	2656.2	2630.1	2634.4
17.5°	2609.1	2623.6	2564.5	2542.6	2538.3
20°	2560.1	2572.9	2503.3	2472.7	2468.4
22.5°	2497.2	2508.3	2435.2	2397.5	2391.5
25°	2402.9	2405.0	2335.1	2282.4	2269.6
27.5°	2304.1	2297.3	2219.8	2157.4	2140.7
30°	2232.5	2223.9	2134.2	2068.3	2053.3
32.5°	2155.6	2140.2	2050.3	1979.2	1964.2
35°	2042.4	2018.9	1924.5	1849.8	1832.7
37.5°	1921.8	1895.4	1802.6	1721.3	1702.1
40°	1841.5	1811.6	1716.9	1635.7	1616.5
42.5°	1761.1	1727.8	1631.3	1550.0	1529.1
45°	1636.1	1601.9	1505.1	1425.9	1404.6
47.5°	1517.3	1473.7	1379.7	1301.0	1279.6
50°	1435.2	1388.2	1297.5	1220.6	1199.2
52.5°	1351.3	1302.6	1215.4	1142.0	1120.6
55°	1223.3	1178.4	1092.2	1024.1	1004.8
57.5°	1096.6	1053.4	974.7	909.6	890.8
60°	1009.2	972.9	897.8	836.2	819.2
62.5°	925.3	892.4	820.9	764.6	747.5
65°	801.7	771.8	707.7	657.2	644.4
67.5°	681.5	651.6	599.8	554.5	540.0
70°	602.9	573.0	526.4	484.6	471.8
72.5°	527.8	496.1	458.3	420.1	410.7
75°	415.0	389.4	360.4	331.8	323.3
77.5°	315.4	290.7	269.6	249.4	247.3
80°	249.0	227.7	211.9	198.7	196.6
82.5°	186.1	169.9	159.5	149.8	149.4
85°	96.1	89.7	87.4	76.4	72.1
87.5°	28.0	28.0	24.9	21.0	21.4
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)