

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: P1057045

Luminaire Tested: CB2-D-085U-120D-840-1D-UNV-STD-W-8

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057045
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-840-1D-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16104.0 lumens
Efficiency: N/A
Efficacy: 110.3 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

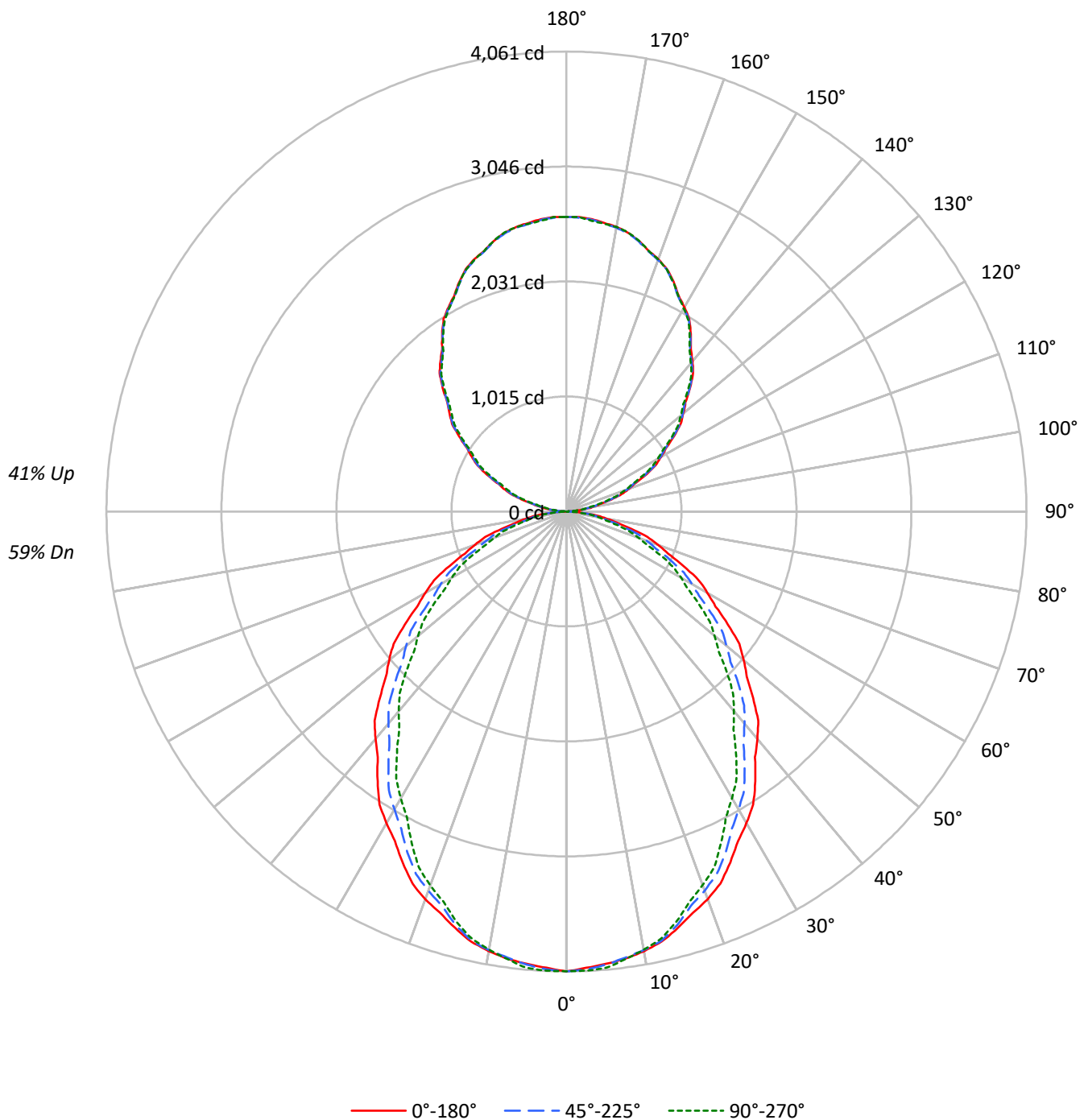
Input Watts (W): 146
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	35368	35368	35368
5°	35067	35122	35366
10°	34868	34786	34758
15°	34316	34092	33811
20°	33776	33026	32565
25°	32868	31942	31046
30°	31958	30551	29393
35°	30911	29126	27737
40°	29801	27787	26160
45°	28685	26387	24626
50°	27679	25025	23130
55°	26440	23607	21718
60°	25022	22261	20310
65°	23516	20761	18902
70°	21854	19082	17103
75°	19879	17265	15485
80°	17779	15126	14037
85°	13669	12430	10252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 28685 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.9	2.4
10°-20°	1064.6	6.6
20°-30°	1530.7	9.5
30°-40°	1720.5	10.7
40°-50°	1662.0	10.3
50°-60°	1404.2	8.7
60°-70°	1008.6	6.3
70°-80°	551.3	3.4
80°-90°	146.6	0.9
90°-100°	100.5	0.6
100°-110°	414.4	2.6
110°-120°	752.3	4.7
120°-130°	1023.7	6.4
130°-140°	1181.8	7.3
140°-150°	1190.9	7.4
150°-160°	1027.7	6.4
160°-170°	696.5	4.3
170°-180°	245.7	1.5
0°-30°	2977.2	18.5
0°-40°	4697.7	29.2
0°-60°	7763.9	48.2
0°-90°	9470.3	58.8
90°-120°	1267.2	7.9
90°-150°	4663.7	29.0
90°-180°	6634.0	41.2
0°-180°	16104.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4061	4061	4061	4061	4061	
5°	4011	4066	4018	4018	4046	381
15°	3806	3840	3781	3744	3750	1073
25°	3421	3424	3324	3249	3231	1575
35°	2908	2874	2740	2633	2609	1816
45°	2329	2280	2142	2030	2000	1799
55°	1741	1678	1555	1458	1430	1557
65°	1141	1099	1008	936	917	1132
75°	591	554	513	472	460	632
85°	137	128	124	109	103	163
90°	0	0	2	0	2	9
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°	4061.2	4061.2	4061.2	4061.2	4061.2
2.5°	4033.8	4082.4	4046.2	4051.4	4058.7
5°	4011.4	4066.1	4017.6	4018.3	4045.6
7.5°	3982.8	4034.5	3973.5	3962.2	3987.8
10°	3943.0	3994.7	3933.7	3912.3	3930.6
12.5°	3890.8	3940.0	3881.4	3847.6	3863.4
15°	3806.2	3839.6	3781.3	3744.1	3750.2
17.5°	3714.1	3734.8	3650.7	3619.5	3613.4
20°	3644.5	3662.7	3563.6	3520.0	3513.9
22.5°	3554.9	3570.7	3466.6	3412.9	3404.4
25°	3420.6	3423.6	3324.2	3249.1	3230.9
27.5°	3280.0	3270.3	3160.0	3071.1	3047.4
30°	3178.0	3165.9	3038.1	2944.3	2923.0
32.5°	3068.6	3046.7	2918.7	2817.5	2796.2
35°	2907.5	2874.0	2739.6	2633.3	2609.0
37.5°	2735.8	2698.1	2566.1	2450.4	2423.0
40°	2621.4	2578.8	2444.2	2328.5	2301.1
42.5°	2507.0	2459.5	2322.3	2206.5	2176.7
45°	2329.1	2280.5	2142.5	2029.9	1999.5
47.5°	2159.9	2097.9	1964.0	1852.0	1821.6
50°	2043.0	1976.1	1847.1	1737.6	1707.2
52.5°	1923.6	1854.3	1730.2	1625.6	1595.2
55°	1741.4	1677.5	1554.8	1457.8	1430.4
57.5°	1561.0	1499.6	1387.5	1294.9	1268.1
60°	1436.6	1385.0	1278.1	1190.4	1166.1
62.5°	1317.2	1270.4	1168.6	1088.4	1064.1
65°	1141.2	1098.7	1007.5	935.6	917.3
67.5°	970.2	927.6	853.9	789.4	768.7
70°	858.3	815.7	749.4	689.9	671.7
72.5°	751.3	706.3	652.4	598.0	584.6
75°	590.8	554.3	513.1	472.4	460.2
77.5°	449.0	413.8	383.7	355.0	352.0
80°	354.5	324.1	301.6	282.9	279.9
82.5°	264.9	241.8	227.0	213.3	212.7
85°	136.8	127.7	124.4	108.7	102.6
87.5°	39.8	39.8	35.2	29.9	30.3
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)