

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: P1057036

Luminaire Tested: CB2-D-085U-030D-840-1D-UNV-STD-W-8

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057036
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-030D-840-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE, DIFFUSER DUST COVER UPLIGHT
2-INCH APERTURE
DOWNLIGHT 300 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: 8915.2 lumens
Efficiency: N/A
Efficacy: 117.3 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: Semi-Indirect

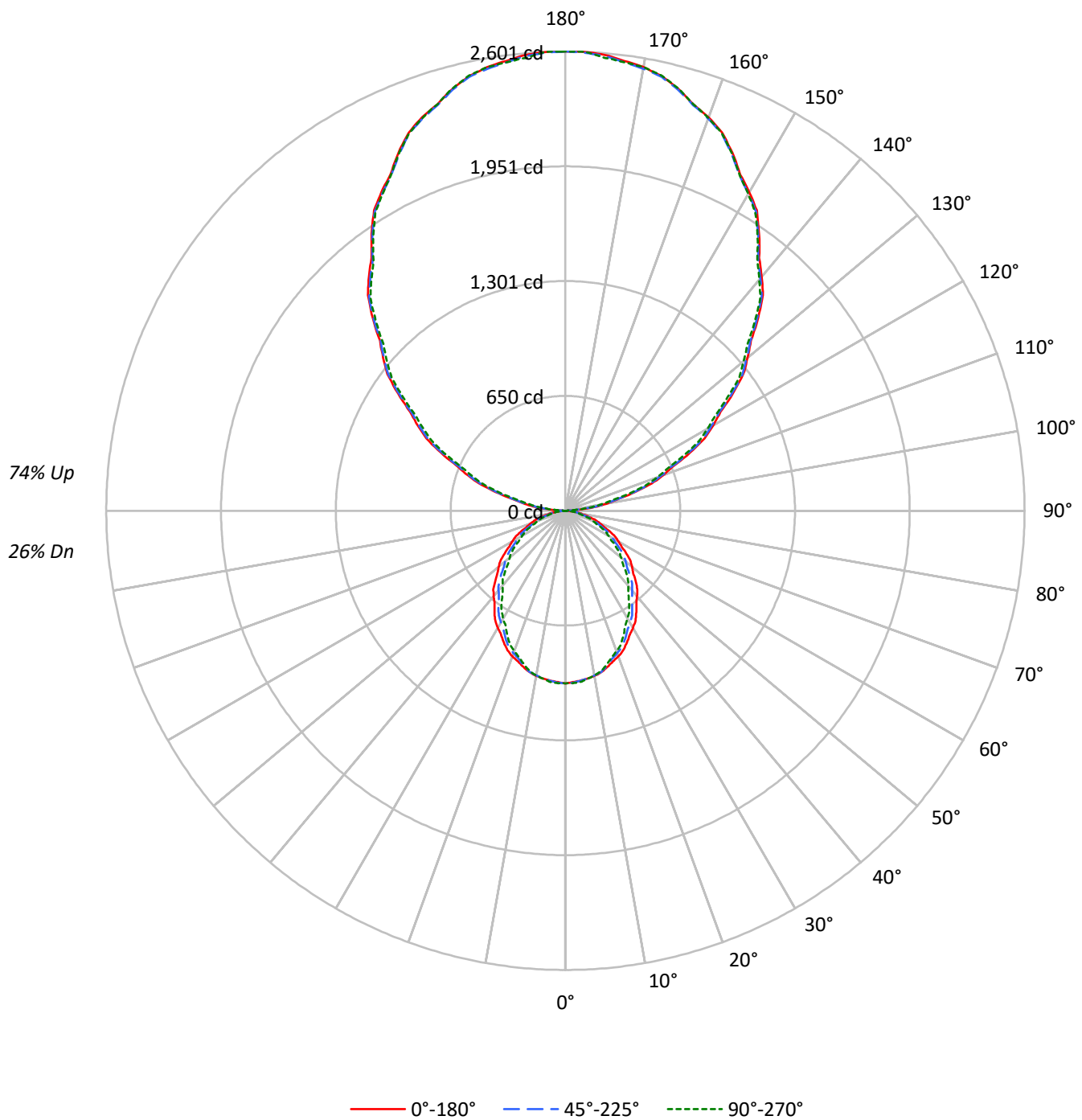
Input Watts (W): 76
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P1057036

CATALOG NUMBER: CB2-D-085U-030D-840-1D-UNV-STD-W-8

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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34
1	92	88	85	81	82	79	76	73	61	59	57	45	44	42	30	29	29
2	84	77	71	66	75	69	64	60	54	50	47	39	37	36	26	25	24
3	77	68	61	55	68	61	55	50	47	43	40	35	32	30	23	22	21
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	19	18
5	64	53	46	40	57	48	41	36	38	33	29	28	25	22	19	17	16
6	59	48	40	34	53	43	36	31	34	29	25	25	22	20	17	15	14
7	55	43	35	30	49	39	32	27	30	26	22	23	20	17	16	14	12
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	14	12	11
9	47	35	28	23	42	32	26	21	25	21	17	19	16	14	13	11	10
10	44	32	25	21	39	29	23	19	23	19	16	18	14	12	12	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8521	8521	8521
5°	8448	8461	8520
10°	8400	8380	8373
15°	8267	8213	8145
20°	8137	7956	7845
25°	7918	7695	7479
30°	7699	7360	7081
35°	7446	7017	6682
40°	7179	6694	6303
45°	6910	6356	5933
50°	6668	6029	5572
55°	6369	5688	5232
60°	6028	5363	4893
65°	5665	5001	4554
70°	5266	4596	4120
75°	4788	4159	3732
80°	4283	3646	3380
85°	3297	2998	2468

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6910 cd/sqm

TEST NUMBER: P1057036

CATALOG NUMBER: CB2-D-085U-030D-840-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	1.0
10°-20°	256.5	2.9
20°-30°	368.8	4.1
30°-40°	414.5	4.6
40°-50°	400.4	4.5
50°-60°	338.3	3.8
60°-70°	243.0	2.7
70°-80°	132.8	1.5
80°-90°	35.4	0.4
90°-100°	100.5	1.1
100°-110°	414.4	4.6
110°-120°	752.3	8.4
120°-130°	1023.7	11.5
130°-140°	1181.8	13.3
140°-150°	1190.9	13.4
150°-160°	1027.7	11.5
160°-170°	696.5	7.8
170°-180°	245.7	2.8
0°-30°	717.2	8.0
0°-40°	1131.7	12.7
0°-60°	1870.4	21.0
0°-90°	2281.6	25.6
90°-120°	1267.2	14.2
90°-150°	4663.7	52.3
90°-180°	6634.0	74.4
0°-180°	8915.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	966	980	968	968	975	92
15°	917	925	911	902	903	258
25°	824	825	801	783	778	379
35°	700	692	660	634	628	438
45°	561	549	516	489	482	433
55°	420	404	375	351	345	375
65°	275	265	243	225	221	273
75°	142	134	124	114	111	152
85°	33	31	30	26	25	39
90°	0	0	2	0	2	5
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	

TEST NUMBER: P1057036

CATALOG NUMBER: CB2-D-085U-030D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	978.4	978.4	978.4	978.4	978.4
2.5°	971.8	983.5	974.8	976.0	977.8
5°	966.4	979.6	967.9	968.0	974.6
7.5°	959.5	971.9	957.2	954.5	960.7
10°	949.9	962.3	947.6	942.5	946.9
12.5°	937.3	949.2	935.1	926.9	930.7
15°	916.9	925.0	910.9	902.0	903.4
17.5°	894.8	899.7	879.5	872.0	870.5
20°	878.0	882.4	858.5	848.0	846.5
22.5°	856.4	860.2	835.1	822.2	820.1
25°	824.0	824.8	800.8	782.7	778.3
27.5°	790.2	787.8	761.3	739.9	734.1
30°	765.6	762.7	731.9	709.3	704.2
32.5°	739.2	734.0	703.1	678.7	673.6
35°	700.4	692.4	660.0	634.4	628.5
37.5°	659.1	650.0	618.2	590.3	583.7
40°	631.5	621.3	588.8	560.9	554.4
42.5°	603.9	592.5	559.4	531.6	524.4
45°	561.1	549.4	516.1	489.0	481.7
47.5°	520.3	505.4	473.1	446.2	438.8
50°	492.2	476.1	445.0	418.6	411.3
52.5°	463.4	446.7	416.8	391.6	384.3
55°	419.5	404.1	374.6	351.2	344.6
57.5°	376.1	361.3	334.3	311.9	305.5
60°	346.1	333.6	307.9	286.8	280.9
62.5°	317.3	306.1	281.5	262.2	256.4
65°	274.9	264.7	242.7	225.4	221.0
67.5°	233.7	223.5	205.7	190.2	185.2
70°	206.8	196.5	180.5	166.2	161.8
72.5°	181.0	170.1	157.2	144.1	140.8
75°	142.3	133.5	123.6	113.8	110.9
77.5°	108.2	99.7	92.4	85.5	84.8
80°	85.4	78.1	72.7	68.2	67.4
82.5°	63.8	58.3	54.7	51.4	51.2
85°	33.0	30.8	30.0	26.2	24.7
87.5°	9.6	9.6	8.8	7.2	7.6
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

TEST NUMBER: P1057036

CATALOG NUMBER: CB2-D-085U-030D-840-1D-UNV-STD-W-8

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)