

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1438617

Luminaire Tested: CB2-030U-085D-840-1D-UNV-STD-W-4

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438617  
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2506-466-1, G2-2312-242-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/31/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB2-030U-085D-840-1D-UNV-STD-W-4  
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT  
2-INCH APERTURE  
DOWNLIGHT 850 LUMENS PER FOOT  
UPLIGHT 300 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

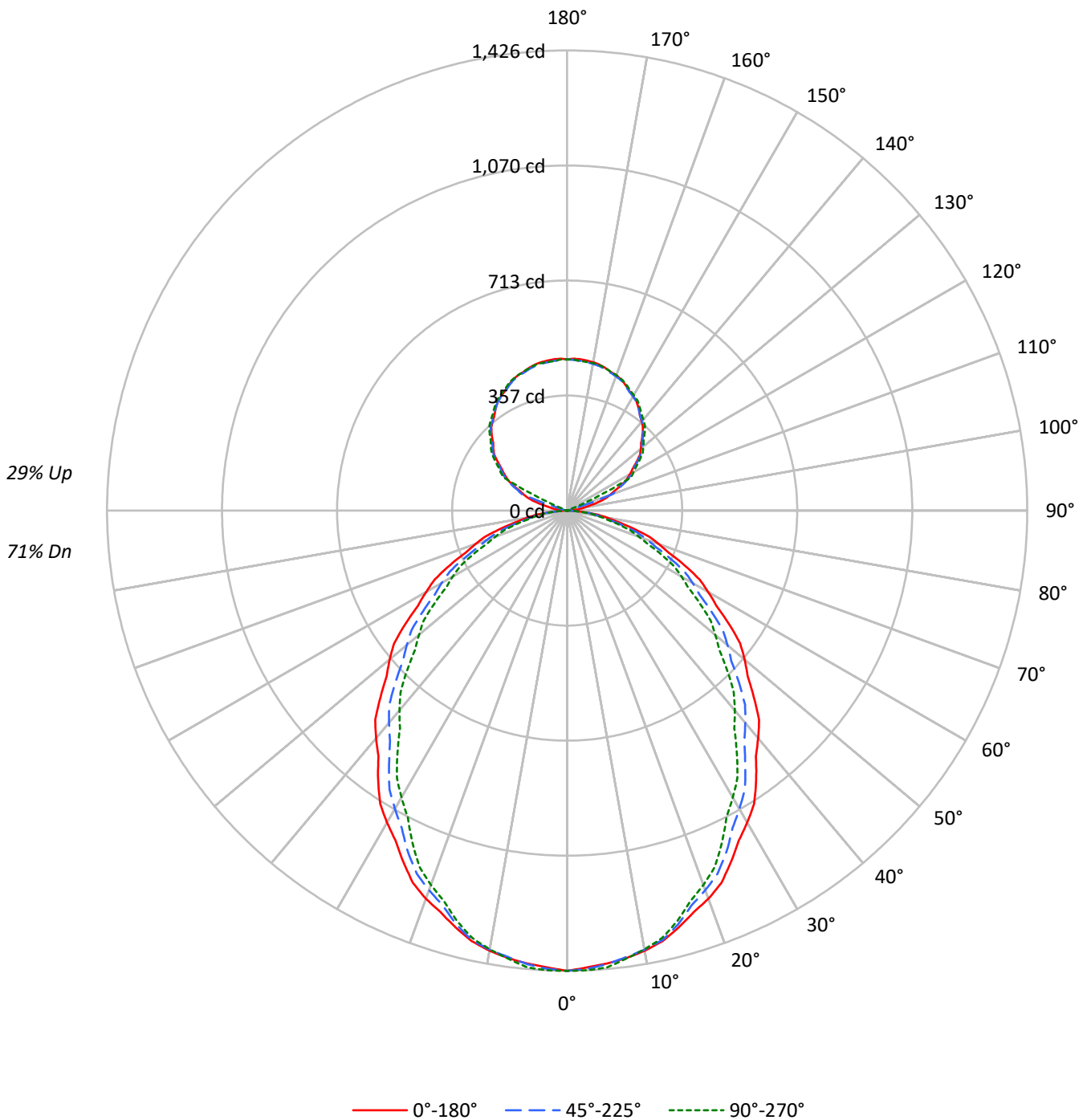
Lumens per Lamp: N/A  
Luminaire Lumens: 4662.0 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 37.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P1438617

CATALOG NUMBER: CB2-030U-085D-840-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P1438617

CATALOG NUMBER: CB2-030U-085D-840-1D-UNV-STD-W-4

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	50	30	10	0														
RCR																																						
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	76	76	76	76	76	76	71														
1	103	98	95	91	97	93	90	87	84	81	79	75	73	71	67	66	65	65	65	65	65	65	65	61														
2	94	86	80	75	89	82	76	72	74	70	66	66	63	60	60	57	55	55	55	55	55	55	55	51														
3	86	76	69	63	81	72	66	60	65	60	56	59	55	51	53	50	47	47	47	47	47	47	47	44														
4	79	68	60	53	74	64	57	52	58	53	48	53	48	44	48	44	41	41	41	41	41	41	41	38														
5	72	61	52	46	68	58	50	45	53	46	42	48	43	39	43	39	36	36	36	36	36	36	36	33														
6	67	55	46	40	63	52	45	39	48	41	37	43	38	34	39	35	32	32	32	32	32	32	32	29														
7	62	50	41	36	59	47	40	35	43	37	32	39	34	30	36	32	28	28	28	28	28	28	28	26														
8	58	45	37	32	55	43	36	31	40	33	29	36	31	27	33	29	25	25	25	25	25	25	25	23														
9	54	41	34	29	51	40	33	28	37	30	26	33	28	25	31	26	23	23	23	23	23	23	23	21														
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	28	24	21	21	21	21	21	21	21	19														

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	24844	24844	24844
5°	24633	24671	24845
10°	24493	24435	24416
15°	24107	23948	23751
20°	23727	23200	22876
25°	23088	22439	21808
30°	22449	21461	20649
35°	21713	20459	19485
40°	20934	19519	18376
45°	20151	18535	17299
50°	19444	17580	16247
55°	18572	16583	15256
60°	17578	15637	14268
65°	16518	14585	13279
70°	15349	13403	12013
75°	13964	12127	10875
80°	12488	10622	9860
85°	9612	8733	7194

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20151 cd/sqm



TEST NUMBER: P1438617

CATALOG NUMBER: CB2-030U-085D-840-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.1	2.9
10°-20°	373.9	8.0
20°-30°	537.6	11.5
30°-40°	604.3	13.0
40°-50°	583.7	12.5
50°-60°	493.2	10.6
60°-70°	354.3	7.6
70°-80°	193.6	4.2
80°-90°	51.5	1.1
90°-100°	8.2	0.2
100°-110°	52.0	1.1
110°-120°	165.1	3.5
120°-130°	239.6	5.1
130°-140°	257.6	5.5
140°-150°	242.6	5.2
150°-160°	197.6	4.2
160°-170°	128.6	2.8
170°-180°	44.5	1.0
0°-30°	1045.7	22.4
0°-40°	1650.0	35.4
0°-60°	2726.9	58.5
0°-90°	3326.3	71.3
90°-120°	225.2	4.8
90°-150°	965.0	20.7
90°-180°	1336.0	28.7
0°-180°	4662.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1409	1428	1411	1411	1421	134
15°	1337	1349	1328	1315	1317	377
25°	1201	1202	1168	1141	1135	553
35°	1021	1010	962	925	916	638
45°	818	801	752	713	702	632
55°	612	589	546	512	502	547
65°	401	386	354	329	322	397
75°	208	195	180	166	162	222
85°	48	45	44	38	36	57
90°	0	0	0	0	0	3
95°	19	5	6	4	3	24
105°	98	101	10	12	12	103
115°	185	189	190	193	110	181
125°	262	267	267	271	275	234
135°	330	334	333	335	340	254
145°	386	389	386	387	392	241
155°	429	432	427	426	432	198
165°	457	459	454	452	457	129
175°	471	472	466	463	465	45
180°	468	468	468	468	468	

TEST NUMBER: P1438617

CATALOG NUMBER: CB2-030U-085D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1426.4	1426.4	1426.4	1426.4	1426.4
2.5°	1416.8	1433.9	1421.2	1423.0	1425.5
5°	1408.9	1428.2	1411.1	1411.3	1421.0
7.5°	1398.9	1417.1	1395.6	1391.7	1400.6
10°	1384.9	1403.1	1381.6	1374.1	1380.5
12.5°	1366.6	1383.9	1363.3	1351.4	1357.0
15°	1336.9	1348.6	1328.1	1315.1	1317.2
17.5°	1304.5	1311.8	1282.2	1271.3	1269.1
20°	1280.1	1286.5	1251.7	1236.3	1234.2
22.5°	1248.6	1254.2	1217.6	1198.7	1195.7
25°	1201.4	1202.5	1167.6	1141.2	1134.8
27.5°	1152.1	1148.6	1109.9	1078.7	1070.4
30°	1116.2	1112.0	1067.1	1034.1	1026.7
32.5°	1077.8	1070.1	1025.1	989.6	982.1
35°	1021.2	1009.5	962.2	924.9	916.4
37.5°	960.9	947.7	901.3	860.7	851.0
40°	920.7	905.8	858.5	817.8	808.2
42.5°	880.5	863.9	815.7	775.0	764.5
45°	818.1	801.0	752.5	713.0	702.3
47.5°	758.6	736.9	689.8	650.5	639.8
50°	717.6	694.1	648.8	610.3	599.6
52.5°	675.6	651.3	607.7	571.0	560.3
55°	611.6	589.2	546.1	512.0	502.4
57.5°	548.3	526.7	487.3	454.8	445.4
60°	504.6	486.4	448.9	418.1	409.6
62.5°	462.7	446.2	410.5	382.3	373.8
65°	400.8	385.9	353.9	328.6	322.2
67.5°	340.8	325.8	299.9	277.3	270.0
70°	301.4	286.5	263.2	242.3	235.9
72.5°	263.9	248.1	229.1	210.0	205.3
75°	207.5	194.7	180.2	165.9	161.6
77.5°	157.7	145.3	134.8	124.7	123.6
80°	124.5	113.8	105.9	99.4	98.3
82.5°	93.1	84.9	79.7	74.9	74.7
85°	48.1	44.9	43.7	38.2	36.0
87.5°	14.0	14.0	12.2	10.6	10.6
90°	0.0	0.0	0.0	0.3	0.3
92.5°	5.1	2.0	1.4	2.0	2.0
95°	18.6	5.4	5.8	3.7	3.4
97.5°	38.7	8.7	8.3	9.2	9.5
100°	53.9	17.8	9.1	10.5	10.8
102.5°	70.7	66.9	9.4	11.3	11.9
105°	97.5	101.2	10.2	11.9	12.5
107.5°	124.0	127.6	47.3	12.3	12.9
110°	141.6	145.2	149.7	12.5	13.2

TEST NUMBER: P1438617

CATALOG NUMBER: CB2-030U-085D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	158.1	162.5	166.0	27.9	13.8
115°	184.6	188.6	190.4	192.6	110.4
117.5°	208.0	212.9	214.9	218.7	222.4
120°	224.2	228.9	230.3	234.1	238.1
122.5°	240.2	244.3	245.2	249.6	253.3
125°	262.2	266.8	266.9	271.4	275.0
127.5°	284.1	288.1	287.9	291.2	295.3
130°	298.7	301.4	301.5	304.3	308.6
132.5°	310.9	314.6	314.7	317.0	321.3
135°	329.9	333.9	333.3	335.4	339.7
137.5°	347.7	351.6	350.5	352.3	356.7
140°	359.4	362.7	361.1	362.9	367.8
142.5°	370.2	373.5	371.1	372.6	377.9
145°	386.1	389.1	386.5	386.9	391.9
147.5°	400.3	403.2	400.0	400.5	405.1
150°	409.5	412.2	408.1	408.6	413.2
152.5°	417.6	420.0	415.7	415.7	421.1
155°	428.8	431.5	426.8	425.9	431.9
157.5°	439.0	441.4	436.7	436.1	440.7
160°	445.7	447.4	442.7	441.8	446.4
162.5°	450.3	452.3	447.6	446.1	450.8
165°	457.3	458.6	453.9	451.9	456.6
167.5°	463.2	464.7	458.7	457.0	461.9
170°	466.7	467.7	461.7	459.4	464.4
172.5°	468.9	469.6	463.6	461.0	464.4
175°	470.8	471.8	465.7	462.7	465.0
177.5°	471.1	471.7	467.1	464.5	468.4
180°	468.4	468.4	468.4	468.4	468.4



TEST NUMBER: P1438617

CATALOG NUMBER: CB2-030U-085D-840-1D-UNV-STD-W-4

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	19.94	21.02	20.69	21.79	22.72	18.84	19.92	19.59	20.69	21.62
	3H	21.60	22.57	22.37	23.35	24.31	20.39	21.35	21.15	22.13	23.09
	4H	22.24	23.15	23.02	23.94	24.91	20.97	21.88	21.75	22.67	23.64
	6H	22.65	23.49	23.45	24.29	25.28	21.35	22.19	22.15	22.99	23.98
	8H	22.81	23.61	23.61	24.43	25.41	21.50	22.30	22.30	23.11	24.10
	12H	22.89	23.65	23.70	24.46	25.48	21.57	22.33	22.38	23.14	24.15
4H	2H	20.38	21.29	21.16	22.08	23.05	19.50	20.41	20.29	21.20	22.18
	3H	22.26	23.02	23.06	23.85	24.84	21.26	22.01	22.06	22.84	23.83
	4H	23.02	23.71	23.83	24.53	25.55	21.94	22.63	22.75	23.45	24.47
	6H	23.55	24.15	24.38	25.00	26.02	22.42	23.02	23.26	23.87	24.89
	8H	23.76	24.32	24.59	25.16	26.20	22.62	23.18	23.45	24.02	25.06
	12H	23.88	24.38	24.73	25.24	26.28	22.72	23.22	23.57	24.08	25.12
8H	4H	23.19	23.75	24.03	24.59	25.63	22.23	22.79	23.06	23.63	24.66
	6H	23.84	24.30	24.70	25.19	26.23	22.84	23.30	23.70	24.19	25.22
	8H	24.13	24.54	25.01	25.43	26.48	23.12	23.53	23.99	24.41	25.46
	12H	24.32	24.68	25.19	25.55	26.66	23.28	23.64	24.15	24.51	25.62
12H	4H	23.18	23.68	24.04	24.55	25.59	22.24	22.74	23.10	23.61	24.65
	6H	23.87	24.28	24.75	25.16	26.22	22.90	23.31	23.78	24.20	25.25
	8H	24.20	24.56	25.07	25.43	26.54	23.22	23.58	24.10	24.45	25.56