

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: P1438671

Luminaire Tested: CB2-055U-085D-835-1D-UNV-STD-W-4

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438671  
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: CB2-055U-085D-835-1D-UNV-STD-W-4  
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT  
2-INCH APERTURE  
DOWNLIGHT 850 LUMENS PER FOOT  
UPLIGHT 550 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

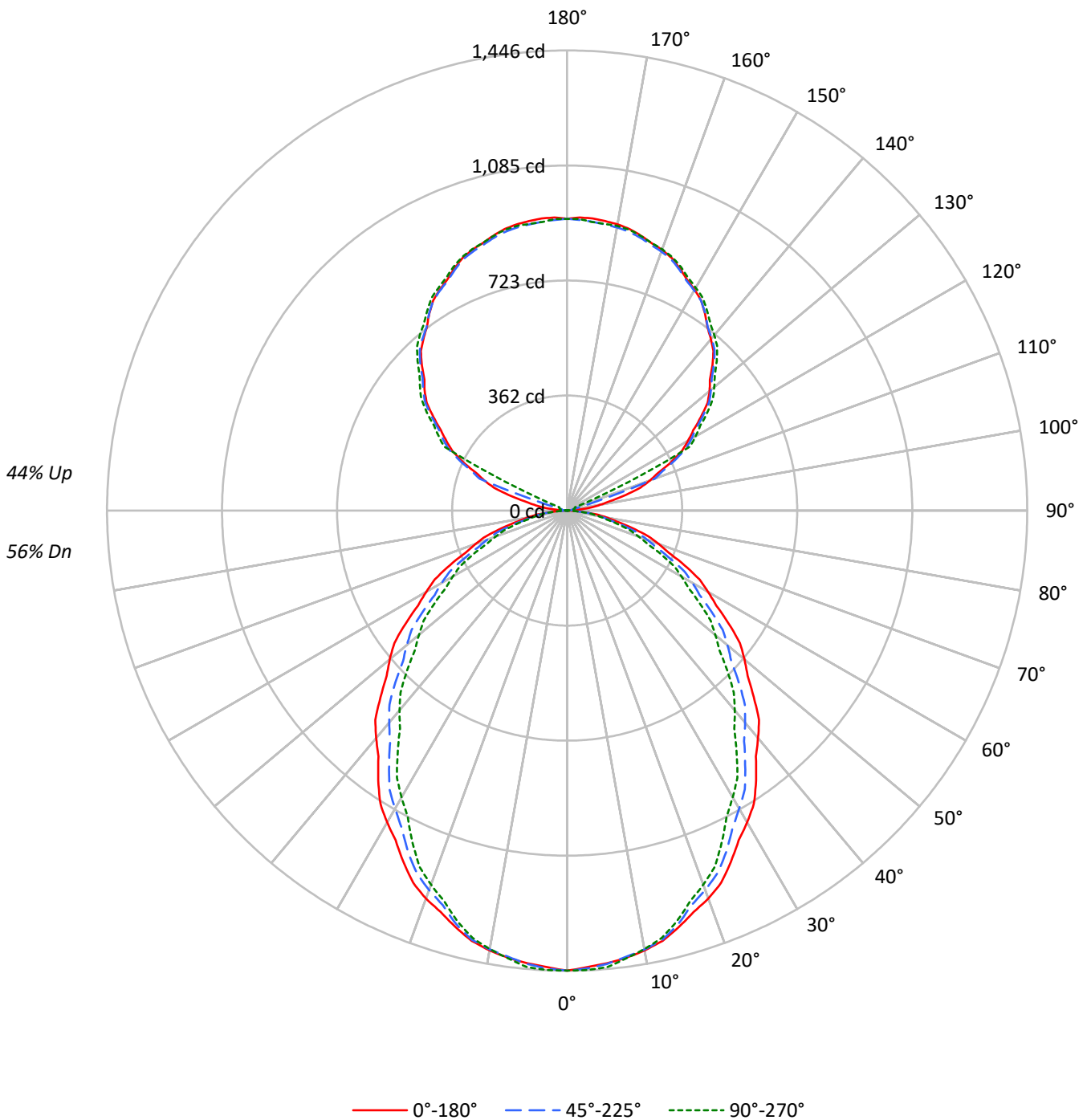
Lumens per Lamp: N/A  
Luminaire Lumens: 5984.6 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 44.9  
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

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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	0
RCR																		
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	64	62	55	54	53	48
2	91	83	77	72	84	78	72	68	67	63	60	58	55	52	49	47	45	40
3	83	73	66	60	77	69	62	57	60	55	51	51	47	44	43	41	38	34
4	76	65	57	51	70	61	54	49	53	48	43	46	42	38	39	36	33	30
5	70	58	50	44	65	55	47	42	48	42	37	41	37	33	35	32	29	26
6	64	52	44	38	60	49	42	37	43	37	33	37	33	29	32	28	26	23
7	60	47	39	34	55	45	37	32	39	33	29	34	29	26	29	26	23	20
8	55	43	35	30	52	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17	15

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

	0°	45°	90°
0°	25180	25180	25180
5°	24967	25005	25180
10°	24824	24766	24746
15°	24431	24273	24072
20°	24047	23514	23186
25°	23402	22741	22103
30°	22752	21751	20926
35°	22007	20735	19747
40°	21218	19783	18626
45°	20422	18787	17533
50°	19707	17816	16467
55°	18824	16808	15462
60°	17814	15850	14460
65°	16745	14783	13460
70°	15558	13587	12176
75°	14152	12288	11023
80°	12658	10772	9990
85°	9732	8853	7294

**MAXIMUM LUMINANCE 45°-90°:**

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



TEST NUMBER: P1438671

CATALOG NUMBER: CB2-055U-085D-835-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.0	2.3
10°-20°	379.0	6.3
20°-30°	544.9	9.1
30°-40°	612.5	10.2
40°-50°	591.6	9.9
50°-60°	499.9	8.4
60°-70°	359.1	6.0
70°-80°	196.2	3.3
80°-90°	52.2	0.9
90°-100°	16.0	0.3
100°-110°	101.7	1.7
110°-120°	323.0	5.4
120°-130°	468.7	7.8
130°-140°	504.1	8.4
140°-150°	474.6	7.9
150°-160°	386.6	6.5
160°-170°	251.7	4.2
170°-180°	87.0	1.5
0°-30°	1059.8	17.7
0°-40°	1672.3	27.9
0°-60°	2763.8	46.2
0°-90°	3371.3	56.3
90°-120°	440.6	7.4
90°-150°	1888.1	31.5
90°-180°	2613.0	43.7
0°-180°	5984.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1446	1446	1446	1446	1446	
5°	1428	1448	1430	1430	1440	136
15°	1355	1367	1346	1333	1335	382
25°	1218	1219	1183	1157	1150	561
35°	1035	1023	975	937	929	647
45°	829	812	763	723	712	641
55°	620	597	554	519	509	554
65°	406	391	359	333	327	403
75°	210	197	183	168	164	225
85°	49	46	44	39	36	58
90°	0	0	0	1	1	3
95°	36	10	11	7	7	46
105°	191	198	20	23	24	201
115°	361	369	372	377	216	355
125°	513	522	522	531	538	459
135°	646	653	652	656	665	498
145°	756	761	756	757	767	472
155°	839	844	835	833	845	387
165°	895	897	888	884	893	253
175°	921	923	911	905	910	88
180°	916	916	916	916	916	

TEST NUMBER: P1438671

CATALOG NUMBER: CB2-055U-085D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1445.7	1445.7	1445.7	1445.7	1445.7
2.5°	1436.0	1453.3	1440.4	1442.2	1444.8
5°	1428.0	1447.5	1430.2	1430.4	1440.2
7.5°	1417.8	1436.2	1414.5	1410.5	1419.6
10°	1403.6	1422.0	1400.3	1392.7	1399.2
12.5°	1385.0	1402.6	1381.7	1369.7	1375.3
15°	1354.9	1366.8	1346.1	1332.8	1335.0
17.5°	1322.2	1329.5	1299.6	1288.5	1286.3
20°	1297.4	1303.9	1268.6	1253.0	1250.9
22.5°	1265.5	1271.1	1234.0	1214.9	1211.9
25°	1217.7	1218.7	1183.3	1156.6	1150.1
27.5°	1167.6	1164.2	1124.9	1093.3	1084.8
30°	1131.3	1127.0	1081.5	1048.1	1040.5
32.5°	1092.3	1084.6	1039.0	1003.0	995.4
35°	1035.0	1023.1	975.2	937.4	928.7
37.5°	973.9	960.5	913.5	872.3	862.5
40°	933.2	918.0	870.1	828.9	819.2
42.5°	892.4	875.5	826.7	785.5	774.9
45°	829.1	811.8	762.7	722.6	711.8
47.5°	768.9	746.8	699.2	659.3	648.5
50°	727.3	703.5	657.5	618.5	607.7
52.5°	684.8	660.1	615.9	578.7	567.9
55°	619.9	597.2	553.5	518.9	509.2
57.5°	555.7	533.8	493.9	460.9	451.4
60°	511.4	493.0	455.0	423.8	415.1
62.5°	468.9	452.2	416.0	387.5	378.8
65°	406.3	391.1	358.7	333.0	326.6
67.5°	345.4	330.2	304.0	281.0	273.6
70°	305.5	290.4	266.8	245.6	239.1
72.5°	267.4	251.4	232.2	212.9	208.1
75°	210.3	197.3	182.6	168.2	163.8
77.5°	159.8	147.3	136.6	126.4	125.3
80°	126.2	115.4	107.4	100.7	99.6
82.5°	94.3	86.1	80.8	75.9	75.7
85°	48.7	45.5	44.3	38.7	36.5
87.5°	14.2	14.2	12.4	10.8	10.8
90°	0.0	0.0	0.0	0.7	0.7
92.5°	10.1	3.9	2.7	3.8	3.8
95°	36.4	10.5	11.3	7.3	6.6
97.5°	75.7	17.0	16.3	17.9	18.6
100°	105.4	34.7	17.9	20.6	21.2
102.5°	138.2	130.9	18.4	22.2	23.3
105°	190.9	198.0	19.9	23.2	24.5
107.5°	242.6	249.7	92.5	24.0	25.3
110°	277.0	284.1	292.9	24.6	25.8



TEST NUMBER: P1438671

CATALOG NUMBER: CB2-055U-085D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	309.4	318.0	324.7	54.6	26.9
115°	361.2	369.0	372.4	376.7	216.0
117.5°	406.9	416.5	420.4	427.9	435.1
120°	438.7	447.8	450.6	458.1	465.9
122.5°	470.0	478.0	479.8	488.3	495.6
125°	512.9	522.0	522.2	531.0	538.1
127.5°	555.9	563.7	563.3	569.9	577.8
130°	584.5	589.7	589.8	595.3	603.7
132.5°	608.4	615.6	615.8	620.2	628.7
135°	645.5	653.3	652.1	656.3	664.7
137.5°	680.3	687.9	685.8	689.3	698.0
140°	703.1	709.6	706.5	710.0	719.7
142.5°	724.4	730.8	726.1	729.1	739.3
145°	755.5	761.3	756.2	757.0	766.8
147.5°	783.2	788.9	782.7	783.5	792.6
150°	801.2	806.4	798.6	799.4	808.5
152.5°	817.1	821.8	813.4	813.3	823.9
155°	839.0	844.2	835.0	833.3	845.0
157.5°	858.9	863.7	854.5	853.3	862.3
160°	872.1	875.4	866.2	864.4	873.5
162.5°	881.2	884.9	875.7	872.9	881.9
165°	894.7	897.3	888.0	884.3	893.3
167.5°	906.3	909.3	897.5	894.1	903.8
170°	913.2	915.2	903.3	898.9	908.6
172.5°	917.5	918.9	907.0	902.0	908.6
175°	921.2	923.1	911.2	905.4	909.9
177.5°	921.8	922.9	913.9	908.8	916.5
180°	916.5	916.5	916.5	916.5	916.5

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**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	18.78	19.68	19.68	20.60	21.78	17.68	18.58	18.58	19.51	20.68
	3H	20.42	21.24	21.34	22.17	23.37	19.21	20.02	20.12	20.95	22.15
	4H	21.06	21.82	21.99	22.76	23.97	19.78	20.55	20.71	21.49	22.70
	6H	21.46	22.17	22.40	23.11	24.34	20.16	20.87	21.10	21.81	23.03
	8H	21.61	22.28	22.56	23.24	24.47	20.30	20.97	21.25	21.93	23.16
	12H	21.69	22.33	22.64	23.28	24.53	20.36	21.00	21.32	21.96	23.21
4H	2H	19.19	19.96	20.13	20.90	22.11	18.32	19.09	19.25	20.02	21.23
	3H	21.06	21.71	22.01	22.67	23.90	20.06	20.70	21.00	21.66	22.89
	4H	21.81	22.40	22.77	23.36	24.61	20.73	21.32	21.69	22.28	23.53
	6H	22.33	22.84	23.30	23.82	25.07	21.21	21.71	22.18	22.70	23.95
	8H	22.54	23.01	23.51	23.99	25.25	21.40	21.87	22.37	22.85	24.11
	12H	22.65	23.07	23.64	24.07	25.34	21.49	21.91	22.48	22.91	24.18
8H	4H	21.97	22.44	22.94	23.42	24.69	21.01	21.48	21.98	22.46	23.72
	6H	22.62	23.01	23.61	24.02	25.29	21.61	22.00	22.61	23.02	24.29
	8H	22.91	23.25	23.91	24.26	25.54	21.89	22.23	22.89	23.24	24.52
	12H	23.08	23.39	24.09	24.39	25.72	22.04	22.34	23.05	23.35	24.67
12H	4H	21.95	22.38	22.94	23.37	24.64	21.01	21.44	22.00	22.43	23.70
	6H	22.64	22.99	23.65	24.00	25.28	21.68	22.02	22.68	23.03	24.31
	8H	22.96	23.27	23.97	24.27	25.60	21.99	22.29	22.99	23.29	24.62