

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: P1438773

Luminaire Tested: CB2-0U-085D-935-1D-UNV-STD-W-4

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438773  
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2312-242-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/31/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB2-0U-085D-935-1D-UNV-STD-W-4  
Description: CORELITE BASIC SLOT LED LUMINAIRE  
2-INCH APERTURE  
DOWNLIGHT 850 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

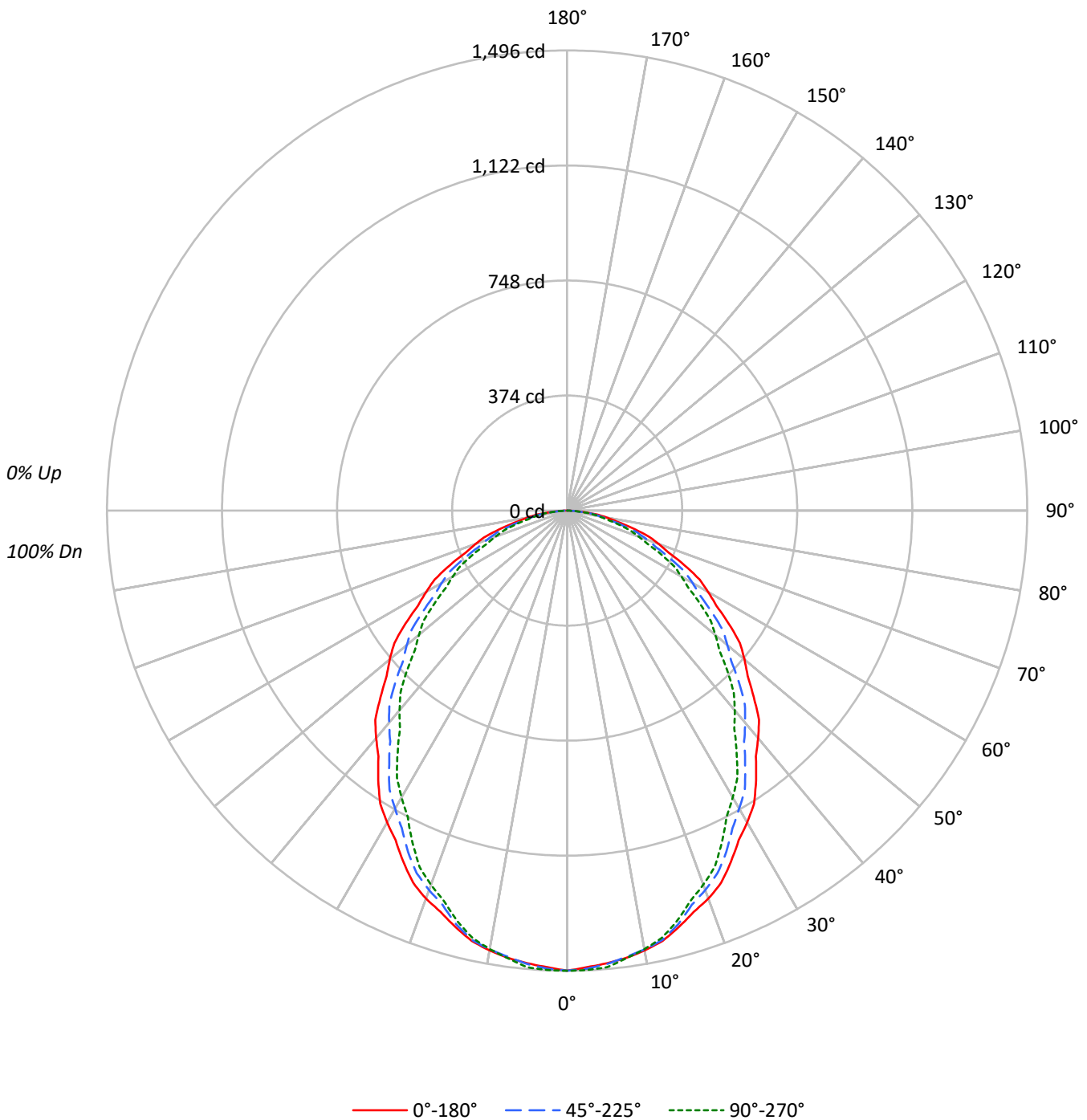
Lumens per Lamp: N/A  
Luminaire Lumens: 3488.2 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.9  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27

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

	0°	45°	90°
0°	26055	26055	26055
5°	25832	25873	26053
10°	25685	25625	25606
15°	25279	25115	24907
20°	24882	24329	23990
25°	24213	23530	22869
30°	23543	22505	21654
35°	22770	21456	20433
40°	21955	20470	19272
45°	21132	19439	18141
50°	20390	18437	17038
55°	19477	17391	16000
60°	18435	16400	14961
65°	17326	15294	13926
70°	16097	14055	12599
75°	14643	12719	11407
80°	13100	11144	10341
85°	10072	9153	7554

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21132 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.7	4.0
10°-20°	392.1	11.2
20°-30°	563.8	16.2
30°-40°	633.7	18.2
40°-50°	612.2	17.5
50°-60°	517.2	14.8
60°-70°	371.5	10.7
70°-80°	203.1	5.8
80°-90°	53.9	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1096.6	31.4
0°-40°	1730.3	49.6
0°-60°	2859.7	82.0
0°-90°	3488.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3488.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1496	1496	1496	1496	1496	
5°	1478	1498	1480	1480	1490	140
15°	1402	1414	1393	1379	1381	395
25°	1260	1261	1224	1197	1190	580
35°	1071	1059	1009	970	961	669
45°	858	840	789	748	736	663
55°	641	618	573	537	527	573
65°	420	405	371	345	338	417
75°	218	204	189	174	170	233
85°	50	47	46	40	38	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1495.9	1495.9	1495.9	1495.9	1495.9
2.5°	1485.8	1503.7	1490.4	1492.3	1494.9
5°	1477.5	1497.7	1479.8	1480.1	1490.1
7.5°	1467.0	1486.0	1463.6	1459.4	1468.8
10°	1452.3	1471.4	1448.9	1441.0	1447.8
12.5°	1433.1	1451.2	1429.7	1417.2	1423.0
15°	1401.9	1414.3	1392.8	1379.1	1381.3
17.5°	1368.0	1375.7	1344.7	1333.2	1330.9
20°	1342.4	1349.1	1312.6	1296.5	1294.3
22.5°	1309.4	1315.2	1276.9	1257.1	1254.0
25°	1259.9	1261.0	1224.4	1196.8	1190.0
27.5°	1208.1	1204.6	1163.9	1131.2	1122.5
30°	1170.6	1166.1	1119.0	1084.5	1076.7
32.5°	1130.3	1122.2	1075.1	1037.8	1029.9
35°	1070.9	1058.6	1009.1	969.9	961.0
37.5°	1007.7	993.8	945.2	902.6	892.5
40°	965.6	949.9	900.3	857.7	847.6
42.5°	923.4	905.9	855.4	812.7	801.8
45°	857.9	840.0	789.2	747.7	736.5
47.5°	795.6	772.7	723.4	682.2	671.0
50°	752.5	727.9	680.4	640.0	628.8
52.5°	708.5	683.0	637.3	598.8	587.6
55°	641.4	617.9	572.7	537.0	526.9
57.5°	575.0	552.4	511.1	476.9	467.1
60°	529.2	510.1	470.8	438.5	429.5
62.5°	485.2	467.9	430.4	400.9	391.9
65°	420.4	404.7	371.1	344.6	337.9
67.5°	357.4	341.7	314.5	290.8	283.1
70°	316.1	300.4	276.0	254.1	247.4
72.5°	276.7	260.1	240.3	220.3	215.3
75°	217.6	204.2	189.0	174.0	169.5
77.5°	165.4	152.4	141.3	130.8	129.7
80°	130.6	119.4	111.1	104.2	103.1
82.5°	97.6	89.1	83.6	78.6	78.3
85°	50.4	47.0	45.8	40.0	37.8
87.5°	14.7	14.7	12.8	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0

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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	22.18	23.76	22.54	24.07	24.39	21.08	22.66	21.44	22.97	23.29
	3H	23.87	25.29	24.25	25.62	25.98	22.65	24.08	23.03	24.40	24.77
	4H	24.53	25.87	24.93	26.22	26.59	23.26	24.60	23.66	24.94	25.32
	6H	24.97	26.21	25.38	26.57	26.96	23.66	24.90	24.08	25.27	25.66
	8H	25.14	26.32	25.56	26.71	27.11	23.82	25.01	24.25	25.39	25.79
	12H	25.23	26.36	25.66	26.75	27.17	23.91	25.04	24.34	25.42	25.85
4H	2H	22.67	24.00	23.07	24.35	24.73	21.79	23.13	22.19	23.48	23.85
	3H	24.60	25.71	25.01	26.11	26.51	23.59	24.70	24.00	25.10	25.50
	4H	25.37	26.38	25.80	26.79	27.23	24.29	25.30	24.72	25.71	26.15
	6H	25.93	26.81	26.38	27.25	27.71	24.80	25.68	25.26	26.12	26.58
	8H	26.15	26.97	26.61	27.41	27.88	25.01	25.83	25.47	26.27	26.74
	12H	26.29	27.03	26.77	27.50	27.97	25.13	25.87	25.61	26.34	26.81
8H	4H	25.58	26.40	26.04	26.85	27.31	24.62	25.44	25.08	25.88	26.35
	6H	26.25	26.93	26.74	27.42	27.90	25.25	25.93	25.74	26.42	26.90
	8H	26.55	27.16	27.06	27.67	28.15	25.53	26.14	26.04	26.65	27.14
	12H	26.75	27.29	27.26	27.78	28.35	25.71	26.25	26.22	26.74	27.31
12H	4H	25.59	26.33	26.07	26.81	27.28	24.65	25.39	25.13	25.87	26.34
	6H	26.28	26.90	26.79	27.40	27.89	25.32	25.93	25.83	26.44	26.92
	8H	26.63	27.17	27.14	27.67	28.23	25.66	26.20	26.16	26.69	27.25