

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: P1439249

Luminaire Tested: CB3-085U-085D-840-1D-UNV-STD-W-4

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1439249  
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2506-466-2, G2-2312-242-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/31/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB3-085U-085D-840-1D-UNV-STD-W-4  
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT  
3-INCH APERTURE  
DOWNLIGHT 850 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

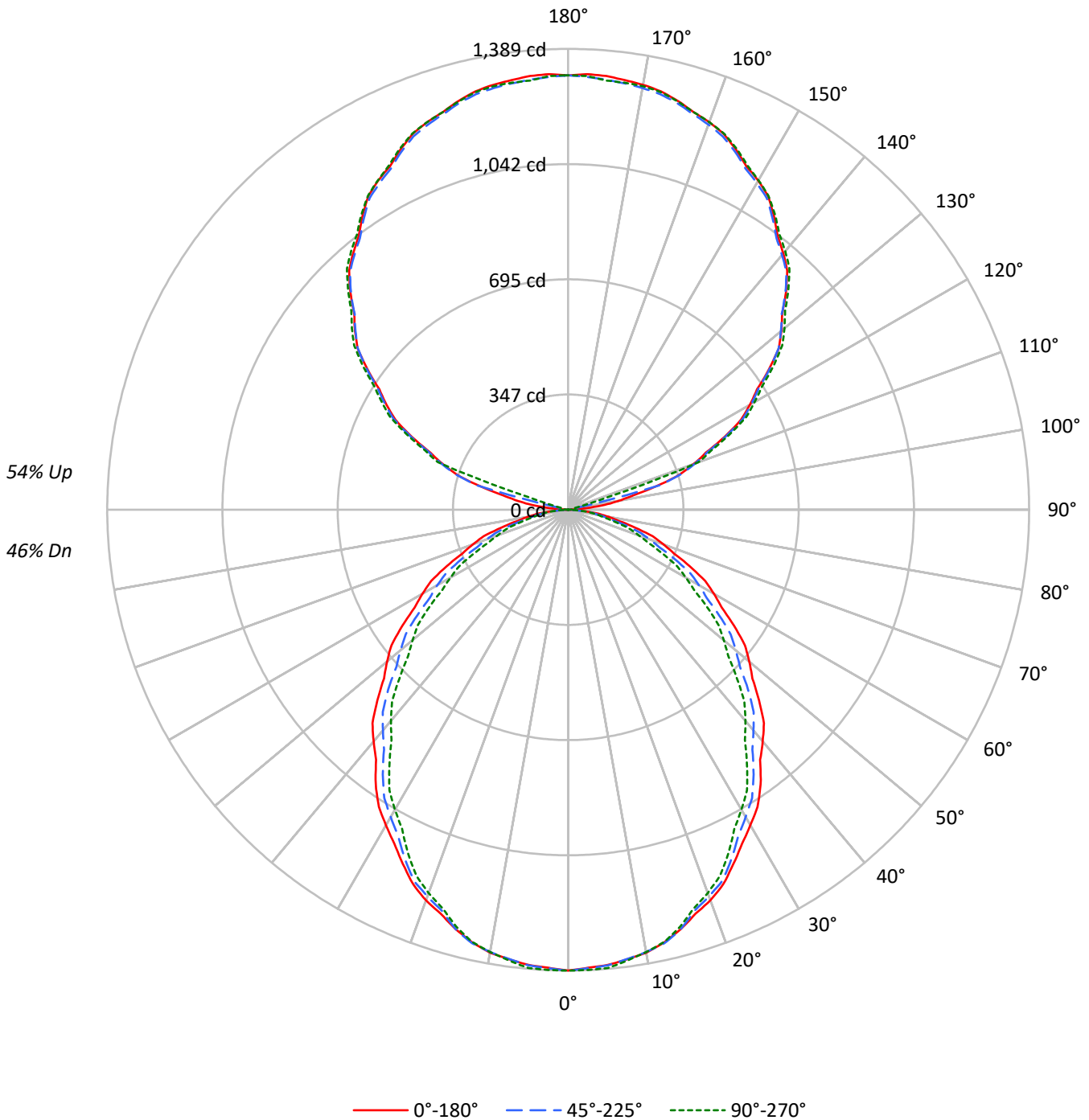
Lumens per Lamp: N/A  
Luminaire Lumens: 7190.1 lumens  
Efficiency: N/A  
Efficacy: 145.3 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26  
Luminous Opening: Rectangular (W 0.24' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 49.5  
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53	46				
1	97	93	89	86	89	85	82	79	71	69	67	59	57	56	47	46	45	39				
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	41	40	38	33				
3	81	72	64	59	74	66	60	55	56	51	47	46	42	40	37	35	33	28				
4	74	63	56	50	68	59	52	46	49	44	40	41	37	34	33	30	28	24				
5	68	57	49	43	62	52	45	40	44	39	35	37	33	30	30	27	25	21				
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19				
7	58	46	38	32	53	43	36	31	36	31	27	30	26	23	25	22	19	17				
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17	15				
9	50	38	31	26	46	35	29	24	30	25	21	26	21	19	21	18	16	14				
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	20	17	14	12				

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

	0°	45°	90°
0°	15718	15718	15718
5°	15644	15656	15745
10°	15576	15553	15553
15°	15337	15337	15244
20°	15088	14933	14803
25°	14708	14523	14265
30°	14348	13973	13638
35°	13969	13451	12974
40°	13466	12825	12271
45°	13009	12267	11510
50°	12540	11602	10767
55°	12029	10958	10062
60°	11475	10294	9267
65°	10830	9536	8425
70°	10087	8651	7506
75°	9145	7593	6684
80°	7969	6366	5916
85°	6153	5375	5375

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13009 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.1	1.8
10°-20°	368.2	5.1
20°-30°	535.0	7.4
30°-40°	608.3	8.5
40°-50°	590.5	8.2
50°-60°	498.6	6.9
60°-70°	354.7	4.9
70°-80°	189.5	2.6
80°-90°	50.1	0.7
90°-100°	30.2	0.4
100°-110°	219.0	3.0
110°-120°	520.6	7.2
120°-130°	665.1	9.3
130°-140°	717.4	10.0
140°-150°	676.3	9.4
150°-160°	551.7	7.7
160°-170°	359.5	5.0
170°-180°	124.3	1.7
0°-30°	1034.3	14.4
0°-40°	1642.6	22.8
0°-60°	2731.7	38.0
0°-90°	3326.1	46.3
90°-120°	769.8	10.7
90°-150°	2828.6	39.3
90°-180°	3864.0	53.7
0°-180°	7190.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1389	1389	1389	1389	1389	
5°	1377	1395	1378	1377	1386	131
15°	1309	1321	1309	1301	1301	369
25°	1178	1182	1163	1147	1143	543
35°	1011	1002	974	945	939	630
45°	813	800	767	730	719	627
55°	610	593	556	520	510	545
65°	404	390	356	324	315	401
75°	209	198	174	156	153	223
85°	47	44	41	41	41	56
90°	0	0	0	1	0	4
95°	55	10	13	14	14	68
105°	277	281	285	21	22	292
115°	520	524	525	533	536	513
125°	739	744	742	750	755	660
135°	928	933	926	932	938	715
145°	1080	1087	1074	1080	1086	676
155°	1197	1206	1190	1193	1201	552
165°	1276	1282	1269	1265	1274	360
175°	1312	1319	1301	1295	1298	125
180°	1309	1309	1309	1309	1309	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1389.2	1389.2	1389.2	1389.2	1389.2
2.5°	1382.1	1396.0	1383.7	1385.4	1388.4
5°	1377.4	1394.8	1378.4	1376.6	1386.3
7.5°	1366.7	1382.6	1365.5	1361.6	1370.3
10°	1355.7	1373.0	1353.7	1348.9	1353.7
12.5°	1335.9	1354.1	1338.7	1330.7	1334.8
15°	1309.3	1320.9	1309.3	1301.4	1301.4
17.5°	1276.7	1288.9	1267.1	1261.5	1259.4
20°	1253.1	1263.7	1240.2	1232.3	1229.4
22.5°	1221.5	1231.3	1211.8	1198.3	1194.7
25°	1178.1	1181.9	1163.3	1147.4	1142.6
27.5°	1134.5	1135.4	1109.8	1090.5	1084.2
30°	1098.2	1099.1	1069.5	1048.7	1043.9
32.5°	1061.9	1059.0	1030.9	1006.1	1002.9
35°	1011.3	1001.7	973.8	945.1	939.3
37.5°	950.4	944.6	911.7	882.9	874.2
40°	911.7	902.0	868.3	839.5	830.8
42.5°	873.0	861.8	827.2	795.2	785.8
45°	813.0	800.5	766.6	729.9	719.3
47.5°	752.6	738.9	701.7	666.1	654.4
50°	712.4	697.9	659.1	624.3	611.7
52.5°	671.3	656.1	617.3	581.7	571.5
55°	609.8	593.4	555.5	519.8	510.1
57.5°	548.2	532.0	494.3	460.5	448.9
60°	507.1	491.7	454.9	421.0	409.5
62.5°	465.3	450.6	414.6	381.6	370.8
65°	404.5	390.1	356.2	324.4	314.7
67.5°	344.3	332.0	298.6	269.4	261.7
70°	304.9	293.3	261.5	234.7	226.9
72.5°	267.0	254.6	224.4	201.6	196.1
75°	209.2	197.6	173.7	155.8	152.9
77.5°	156.3	146.8	126.1	116.0	114.5
80°	122.3	113.7	97.7	90.8	90.8
82.5°	90.8	83.6	73.2	70.3	70.3
85°	47.4	43.5	41.4	41.4	41.4
87.5°	14.2	14.2	13.4	12.8	12.6
90°	0.0	0.0	0.0	1.0	0.0
92.5°	15.0	5.7	4.7	5.7	5.5
95°	55.3	9.9	12.8	13.8	13.8
97.5°	111.3	109.2	15.0	18.0	18.2
100°	153.9	158.7	15.8	18.8	19.7
102.5°	201.3	205.3	29.2	19.6	20.5
105°	277.3	281.1	285.1	20.7	21.7
107.5°	352.8	355.7	358.4	322.6	120.8
110°	402.6	405.5	406.5	416.4	418.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	449.1	452.8	454.7	463.0	466.5
115°	520.0	523.8	524.9	532.9	535.8
117.5°	587.3	591.3	593.2	599.6	604.2
120°	631.5	636.3	637.4	645.4	649.2
122.5°	674.9	680.5	680.0	687.2	692.6
125°	739.0	743.8	742.0	750.0	754.8
127.5°	800.0	802.9	798.8	808.6	812.6
130°	838.7	841.6	836.7	845.7	850.5
132.5°	874.2	878.6	873.0	881.2	886.0
135°	928.5	933.3	925.5	932.5	938.3
137.5°	976.8	982.6	973.3	981.5	986.5
140°	1008.4	1014.2	1002.5	1011.5	1017.3
142.5°	1037.6	1044.9	1030.9	1039.1	1045.7
145°	1080.4	1087.2	1073.5	1080.5	1086.3
147.5°	1121.1	1126.8	1113.8	1118.8	1122.8
150°	1145.5	1151.3	1136.6	1141.7	1146.5
152.5°	1165.3	1173.4	1158.7	1162.3	1169.4
155°	1196.8	1206.5	1189.9	1193.1	1200.8
157.5°	1225.8	1234.5	1217.9	1220.7	1227.4
160°	1243.2	1251.9	1235.3	1236.4	1243.2
162.5°	1256.6	1264.5	1250.3	1248.3	1256.6
165°	1275.8	1282.5	1268.9	1265.1	1273.8
167.5°	1291.7	1299.5	1282.7	1279.5	1289.4
170°	1300.4	1308.1	1290.6	1285.9	1296.5
172.5°	1306.0	1312.9	1296.1	1289.8	1298.1
175°	1312.3	1319.0	1301.4	1294.6	1298.5
177.5°	1314.0	1319.4	1305.4	1299.3	1308.5
180°	1309.3	1309.3	1309.3	1309.3	1309.3



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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	16.36	17.18	17.35	18.18	19.51	15.28	16.10	16.28	17.10	18.43
	3H	18.03	18.76	19.03	19.77	21.12	16.70	17.43	17.70	18.44	19.78
	4H	18.65	19.35	19.67	20.36	21.72	17.21	17.90	18.22	18.92	20.27
	6H	19.04	19.68	20.06	20.70	22.06	17.53	18.17	18.55	19.18	20.55
	8H	19.17	19.78	20.20	20.82	22.18	17.65	18.26	18.68	19.29	20.65
	12H	19.24	19.82	20.28	20.85	22.23	17.72	18.30	18.76	19.33	20.71
4H	2H	16.77	17.46	17.79	18.47	19.83	15.91	16.60	16.93	17.61	18.97
	3H	18.65	19.23	19.68	20.27	21.64	17.52	18.10	18.55	19.14	20.51
	4H	19.40	19.93	20.44	20.96	22.35	18.13	18.66	19.16	19.69	21.08
	6H	19.90	20.35	20.95	21.41	22.80	18.54	18.99	19.58	20.05	21.44
	8H	20.09	20.51	21.14	21.56	22.96	18.71	19.13	19.75	20.18	21.58
	12H	20.18	20.57	21.25	21.63	23.04	18.81	19.19	19.88	20.26	21.66
8H	4H	19.52	19.95	20.57	21.00	22.40	18.39	18.81	19.43	19.86	21.26
	6H	20.14	20.49	21.21	21.58	22.98	18.91	19.26	19.98	20.36	21.75
	8H	20.42	20.73	21.50	21.80	23.22	19.16	19.47	20.24	20.55	21.97
	12H	20.58	20.85	21.66	21.92	23.38	19.34	19.61	20.42	20.68	22.14
12H	4H	19.50	19.88	20.56	20.94	22.35	18.39	18.77	19.45	19.83	21.24
	6H	20.16	20.47	21.24	21.54	22.96	18.97	19.28	20.05	20.35	21.77
	8H	20.46	20.73	21.54	21.80	23.26	19.25	19.52	20.33	20.59	22.05