

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: P1438731

Luminaire Tested: CB2-085U-085D-927-1D-UNV-STD-W-4

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438731  
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: CB2-085U-085D-927-1D-UNV-STD-W-4  
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT  
2-INCH APERTURE  
DOWNLIGHT 850 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

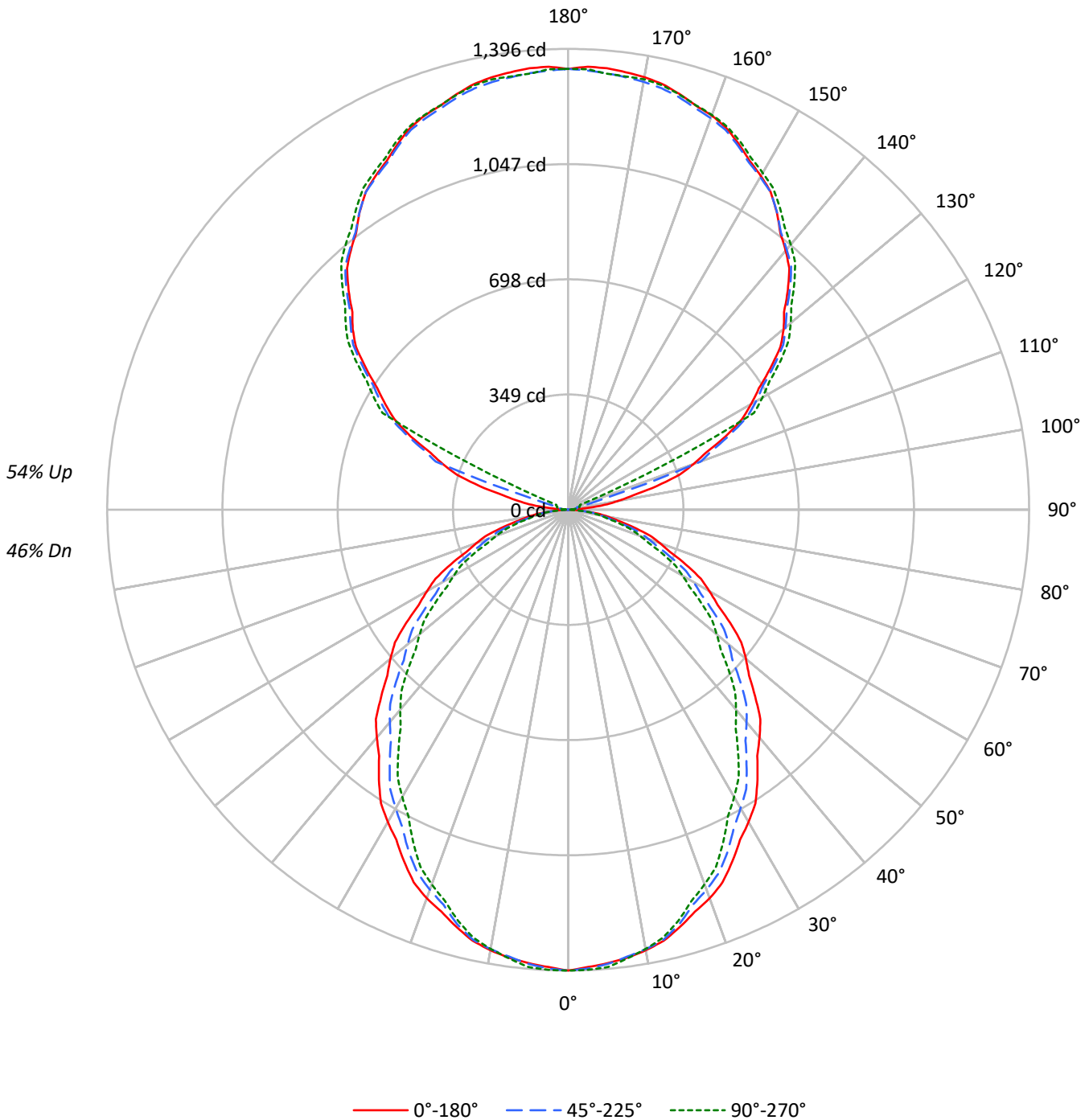
Lumens per Lamp: N/A  
Luminaire Lumens: 7063.4 lumens  
Efficiency: N/A  
Efficacy: 132.5 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 53.3  
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	97	97	97	97	81	81	81	66	66	66	53	53	53	46				
1	97	93	89	86	89	85	82	79	71	69	67	59	57	55	47	46	45	39				
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	41	39	38	33				
3	81	72	64	59	74	66	60	55	55	51	47	46	42	40	37	34	32	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	33	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	33	26	22	28	23	19	24	20	17	20	17	14	12				

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

	0°	45°	90°
0°	24315	24315	24315
5°	24109	24147	24315
10°	23972	23915	23896
15°	23593	23438	23245
20°	23221	22706	22389
25°	22596	21960	21343
30°	21970	21003	20208
35°	21250	20023	19068
40°	20488	19103	17985
45°	19720	18141	16929
50°	19030	17204	15900
55°	18177	16231	14931
60°	17201	15303	13962
65°	16168	14272	12994
70°	15023	13118	11759
75°	13668	11871	10646
80°	12227	10401	9649
85°	9393	8553	7054

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19720 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.3	1.9
10°-20°	365.9	5.2
20°-30°	526.2	7.4
30°-40°	591.4	8.4
40°-50°	571.3	8.1
50°-60°	482.7	6.8
60°-70°	346.7	4.9
70°-80°	189.5	2.7
80°-90°	50.4	0.7
90°-100°	23.3	0.3
100°-110°	148.1	2.1
110°-120°	470.6	6.7
120°-130°	683.0	9.7
130°-140°	734.5	10.4
140°-150°	691.6	9.8
150°-160°	563.4	8.0
160°-170°	366.7	5.2
170°-180°	126.8	1.8
0°-30°	1023.4	14.5
0°-40°	1614.8	22.9
0°-60°	2668.8	37.8
0°-90°	3255.5	46.1
90°-120°	642.0	9.1
90°-150°	2751.1	38.9
90°-180°	3808.0	53.9
0°-180°	7063.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1396	1396	1396	1396	1396	
5°	1379	1398	1381	1381	1391	131
15°	1308	1320	1300	1287	1289	369
25°	1176	1177	1143	1117	1111	541
35°	999	988	942	905	897	624
45°	801	784	736	698	687	619
55°	599	577	534	501	492	535
65°	392	378	346	322	315	389
75°	203	191	176	162	158	217
85°	47	44	43	37	35	56
90°	0	0	0	1	1	4
95°	53	15	16	11	10	67
105°	278	288	29	34	36	293
115°	526	538	543	549	315	517
125°	747	761	761	774	784	668
135°	940	952	950	956	968	725
145°	1101	1109	1102	1103	1117	688
155°	1222	1230	1217	1214	1231	564
165°	1304	1307	1294	1288	1302	368
175°	1342	1345	1328	1319	1326	128
180°	1336	1336	1336	1336	1336	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1396.0	1396.0	1396.0	1396.0	1396.0
2.5°	1386.6	1403.3	1390.9	1392.7	1395.2
5°	1378.9	1397.7	1381.1	1381.3	1390.7
7.5°	1369.1	1386.8	1365.9	1362.0	1370.8
10°	1355.4	1373.2	1352.2	1344.9	1351.1
12.5°	1337.4	1354.4	1334.2	1322.6	1328.0
15°	1308.4	1319.9	1299.8	1287.0	1289.1
17.5°	1276.7	1283.8	1254.9	1244.2	1242.1
20°	1252.8	1259.1	1225.0	1210.0	1207.9
22.5°	1222.0	1227.4	1191.6	1173.2	1170.3
25°	1175.8	1176.9	1142.7	1116.9	1110.6
27.5°	1127.5	1124.2	1086.2	1055.7	1047.5
30°	1092.4	1088.3	1044.3	1012.1	1004.8
32.5°	1054.8	1047.3	1003.3	968.5	961.2
35°	999.4	987.9	941.7	905.2	896.8
37.5°	940.4	927.5	882.1	842.3	832.9
40°	901.1	886.5	840.2	800.4	791.0
42.5°	861.8	845.5	798.3	758.5	748.2
45°	800.6	783.9	736.5	697.8	687.3
47.5°	742.5	721.2	675.1	636.6	626.2
50°	702.3	679.3	634.9	597.3	586.8
52.5°	661.2	637.4	594.8	558.8	548.4
55°	598.6	576.7	534.5	501.1	491.7
57.5°	536.6	515.5	477.0	445.1	435.9
60°	493.8	476.1	439.3	409.2	400.8
62.5°	452.8	436.7	401.7	374.1	365.8
65°	392.3	377.7	346.3	321.6	315.3
67.5°	333.5	318.9	293.5	271.3	264.2
70°	295.0	280.4	257.6	237.2	230.9
72.5°	258.3	242.8	224.3	205.6	201.0
75°	203.1	190.6	176.4	162.4	158.2
77.5°	154.4	142.2	131.9	122.0	121.0
80°	121.9	111.4	103.7	97.2	96.2
82.5°	91.1	83.1	78.0	73.3	73.1
85°	47.0	43.9	42.8	37.4	35.3
87.5°	13.7	13.7	12.0	10.5	10.5
90°	0.0	0.0	0.0	1.0	1.0
92.5°	14.7	5.6	3.9	5.6	5.6
95°	53.1	15.3	16.4	10.6	9.7
97.5°	110.3	24.7	23.8	26.1	27.0
100°	153.5	50.6	26.1	30.0	30.9
102.5°	201.4	190.7	26.8	32.3	34.0
105°	278.1	288.5	29.0	33.8	35.7
107.5°	353.4	363.8	134.8	35.0	36.9
110°	403.6	414.0	426.8	35.8	37.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	450.8	463.4	473.2	79.6	39.2
115°	526.3	537.6	542.7	549.0	314.8
117.5°	592.9	606.9	612.6	623.5	634.0
120°	639.3	652.5	656.6	667.5	678.8
122.5°	684.8	696.5	699.1	711.5	722.1
125°	747.4	760.6	760.9	773.7	784.1
127.5°	810.0	821.3	820.8	830.3	841.8
130°	851.7	859.2	859.4	867.4	879.7
132.5°	886.5	897.0	897.3	903.7	916.0
135°	940.5	951.9	950.2	956.3	968.5
137.5°	991.3	1002.3	999.2	1004.4	1017.0
140°	1024.5	1034.0	1029.4	1034.5	1048.7
142.5°	1055.4	1064.9	1058.0	1062.4	1077.3
145°	1100.8	1109.3	1101.8	1103.1	1117.2
147.5°	1141.2	1149.5	1140.4	1141.7	1154.9
150°	1167.5	1175.0	1163.6	1164.9	1178.1
152.5°	1190.6	1197.4	1185.2	1185.0	1200.5
155°	1222.5	1230.1	1216.7	1214.2	1231.2
157.5°	1251.5	1258.5	1245.1	1243.3	1256.5
160°	1270.8	1275.5	1262.1	1259.5	1272.7
162.5°	1283.9	1289.4	1276.0	1271.9	1285.1
165°	1303.6	1307.4	1294.0	1288.5	1301.7
167.5°	1320.6	1325.0	1307.7	1302.8	1316.9
170°	1330.7	1333.5	1316.2	1309.7	1323.9
172.5°	1336.8	1338.9	1321.6	1314.3	1323.9
175°	1342.2	1345.1	1327.8	1319.2	1325.8
177.5°	1343.2	1344.7	1331.6	1324.2	1335.5
180°	1335.5	1335.5	1335.5	1335.5	1335.5



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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	17.71	18.53	18.71	19.53	20.86	16.61	17.43	17.61	18.43	19.76
	3H	19.36	20.09	20.36	21.10	22.45	18.14	18.87	19.14	19.88	21.23
	4H	19.98	20.67	21.00	21.69	23.05	18.71	19.40	19.73	20.42	21.77
	6H	20.38	21.02	21.41	22.04	23.41	19.08	19.72	20.10	20.74	22.10
	8H	20.53	21.14	21.56	22.17	23.54	19.22	19.82	20.25	20.86	22.22
	12H	20.60	21.18	21.64	22.21	23.60	19.28	19.86	20.32	20.89	22.27
4H	2H	18.12	18.81	19.14	19.83	21.18	17.24	17.94	18.26	18.95	20.31
	3H	19.98	20.56	21.01	21.60	22.97	18.97	19.55	20.00	20.59	21.96
	4H	20.73	21.26	21.77	22.29	23.68	19.65	20.17	20.68	21.21	22.60
	6H	21.24	21.70	22.29	22.76	24.14	20.12	20.57	21.17	21.63	23.02
	8H	21.45	21.87	22.50	22.92	24.33	20.31	20.73	21.36	21.78	23.19
	12H	21.55	21.94	22.62	23.00	24.41	20.39	20.78	21.46	21.84	23.25
8H	4H	20.88	21.30	21.93	22.36	23.76	19.92	20.34	20.96	21.39	22.79
	6H	21.52	21.87	22.59	22.96	24.36	20.52	20.87	21.59	21.96	23.36
	8H	21.81	22.12	22.89	23.20	24.61	20.79	21.10	21.87	22.18	23.60
	12H	21.98	22.25	23.07	23.33	24.79	20.94	21.21	22.02	22.28	23.74
12H	4H	20.86	21.24	21.92	22.31	23.71	19.92	20.30	20.98	21.37	22.77
	6H	21.55	21.86	22.63	22.93	24.35	20.58	20.89	21.66	21.97	23.39
	8H	21.86	22.13	22.95	23.21	24.67	20.88	21.16	21.97	22.23	23.69