

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: P1438737

Luminaire Tested: CB2-085U-085D-940-1D-UNV-STD-W-4

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438737  
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-940-1D-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: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

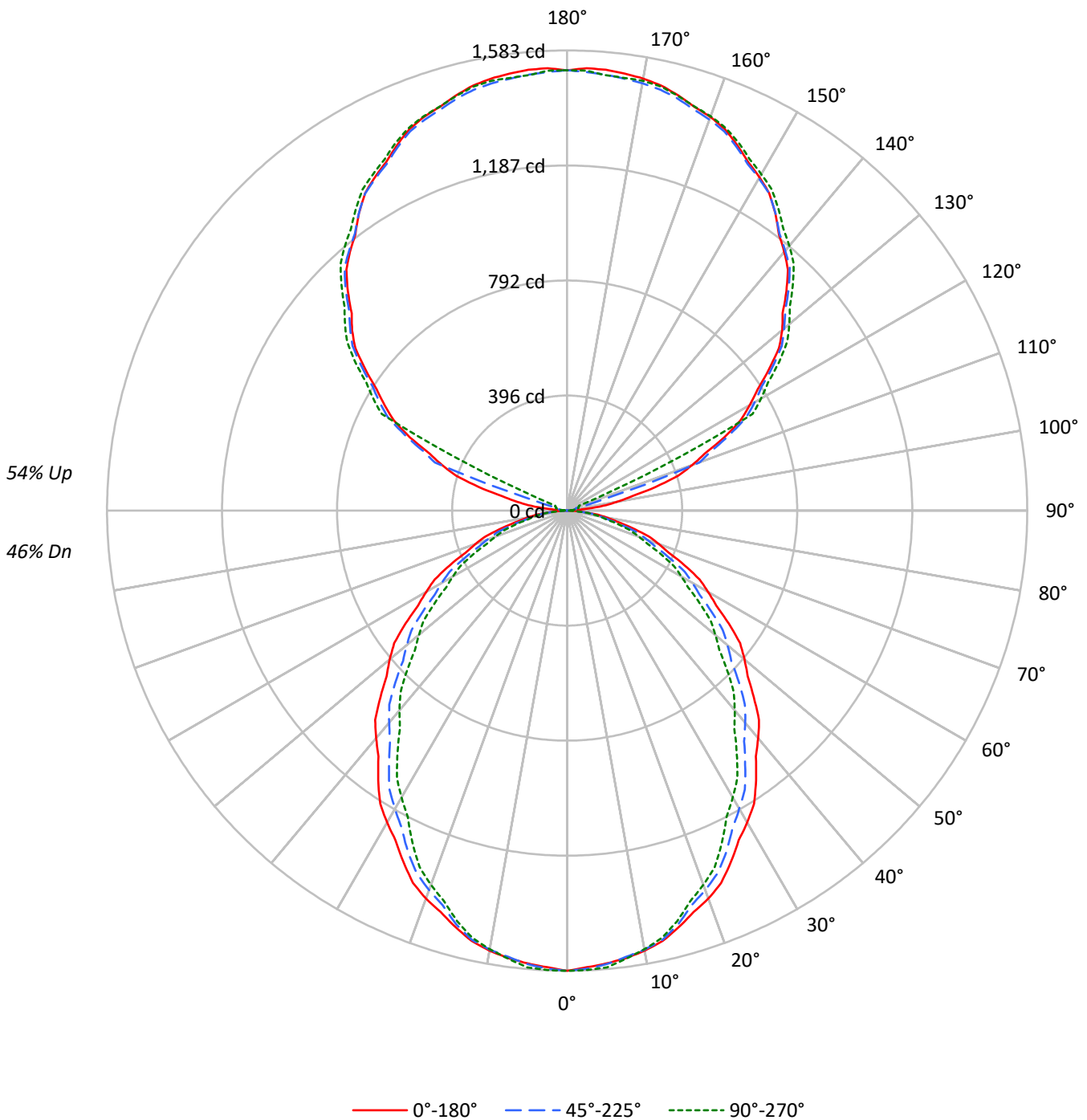
Lumens per Lamp: N/A  
Luminaire Lumens: 8010.1 lumens  
Efficiency: N/A  
Efficacy: 150.3 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 53.3  
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	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°	27573	27573	27573
5°	27340	27381	27574
10°	27185	27120	27099
15°	26754	26579	26361
20°	26333	25749	25389
25°	25625	24903	24205
30°	24917	23818	22917
35°	24099	22706	21624
40°	23235	21664	20395
45°	22363	20573	19198
50°	21580	19510	18033
55°	20613	18405	16932
60°	19507	17355	15836
65°	18336	16184	14738
70°	17039	14875	13332
75°	15498	13459	12073
80°	13862	11796	10943
85°	10652	9692	7994

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22363 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.9	1.9
10°-20°	415.0	5.2
20°-30°	596.7	7.4
30°-40°	670.7	8.4
40°-50°	647.9	8.1
50°-60°	547.4	6.8
60°-70°	393.2	4.9
70°-80°	214.9	2.7
80°-90°	57.2	0.7
90°-100°	26.4	0.3
100°-110°	168.0	2.1
110°-120°	533.7	6.7
120°-130°	774.5	9.7
130°-140°	833.0	10.4
140°-150°	784.3	9.8
150°-160°	638.9	8.0
160°-170°	415.8	5.2
170°-180°	143.7	1.8
0°-30°	1160.6	14.5
0°-40°	1831.2	22.9
0°-60°	3026.5	37.8
0°-90°	3691.8	46.1
90°-120°	728.1	9.1
90°-150°	3119.8	38.9
90°-180°	4318.0	53.9
0°-180°	8010.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1583	1583	1583	1583	1583	
5°	1564	1585	1566	1566	1577	148
15°	1484	1497	1474	1460	1462	418
25°	1333	1335	1296	1267	1260	614
35°	1133	1120	1068	1026	1017	708
45°	908	889	835	791	779	701
55°	679	654	606	568	558	607
65°	445	428	393	365	358	441
75°	230	216	200	184	179	246
85°	53	50	48	42	40	63
90°	0	0	0	1	1	4
95°	60	17	19	12	11	76
105°	315	327	33	38	40	332
115°	597	610	615	622	357	587
125°	848	863	863	877	889	758
135°	1067	1079	1078	1084	1098	823
145°	1248	1258	1250	1251	1267	780
155°	1386	1395	1380	1377	1396	639
165°	1478	1483	1467	1461	1476	418
175°	1522	1525	1506	1496	1504	145
180°	1514	1514	1514	1514	1514	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1583.1	1583.1	1583.1	1583.1	1583.1
2.5°	1572.5	1591.4	1577.3	1579.3	1582.1
5°	1563.7	1585.1	1566.1	1566.4	1577.1
7.5°	1552.6	1572.7	1548.9	1544.6	1554.5
10°	1537.1	1557.2	1533.4	1525.1	1532.2
12.5°	1516.7	1535.9	1513.1	1499.9	1506.0
15°	1483.7	1496.8	1474.0	1459.5	1461.9
17.5°	1447.8	1455.9	1423.1	1410.9	1408.6
20°	1420.7	1427.8	1389.2	1372.1	1369.8
22.5°	1385.8	1391.9	1351.3	1330.4	1327.1
25°	1333.4	1334.6	1295.8	1266.6	1259.5
27.5°	1278.6	1274.8	1231.8	1197.2	1187.9
30°	1238.9	1234.1	1184.3	1147.8	1139.5
32.5°	1196.2	1187.7	1137.8	1098.3	1090.0
35°	1133.4	1120.4	1067.9	1026.5	1017.0
37.5°	1066.5	1051.8	1000.3	955.2	944.5
40°	1021.9	1005.3	952.8	907.7	897.0
42.5°	977.3	958.8	905.3	860.1	848.5
45°	907.9	889.0	835.2	791.3	779.4
47.5°	842.0	817.8	765.6	722.0	710.1
50°	796.4	770.3	720.0	677.3	665.5
52.5°	749.9	722.8	674.5	633.7	621.9
55°	678.8	653.9	606.1	568.3	557.6
57.5°	608.5	584.6	540.9	504.8	494.3
60°	560.0	539.9	498.2	464.1	454.6
62.5°	513.5	495.2	455.5	424.3	414.8
65°	444.9	428.3	392.7	364.7	357.6
67.5°	378.2	361.6	332.9	307.7	299.7
70°	334.6	318.0	292.1	268.9	261.8
72.5°	292.9	275.3	254.3	233.1	227.9
75°	230.3	216.1	200.0	184.1	179.4
77.5°	175.0	161.3	149.6	138.4	137.2
80°	138.2	126.3	117.6	110.3	109.1
82.5°	103.3	94.3	88.5	83.2	82.9
85°	53.3	49.8	48.5	42.4	40.0
87.5°	15.5	15.5	13.6	11.9	11.9
90°	0.0	0.0	0.0	1.1	1.1
92.5°	16.6	6.4	4.4	6.4	6.4
95°	60.2	17.4	18.6	12.0	11.0
97.5°	125.1	28.0	26.9	29.6	30.7
100°	174.1	57.4	29.6	34.0	35.0
102.5°	228.4	216.2	30.4	36.6	38.5
105°	315.4	327.2	32.9	38.4	40.5
107.5°	400.8	412.6	152.9	39.7	41.8
110°	457.7	469.5	484.0	40.6	42.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	511.2	525.5	536.6	90.3	44.5
115°	596.8	609.7	615.4	622.5	357.0
117.5°	672.4	688.2	694.7	707.0	719.0
120°	724.9	739.9	744.6	757.0	769.8
122.5°	776.6	789.9	792.8	806.9	818.9
125°	847.6	862.6	862.9	877.4	889.2
127.5°	918.5	931.4	930.8	941.6	954.7
130°	965.8	974.4	974.6	983.7	997.6
132.5°	1005.3	1017.3	1017.5	1024.9	1038.8
135°	1066.6	1079.4	1077.5	1084.4	1098.3
137.5°	1124.2	1136.6	1133.2	1139.0	1153.3
140°	1161.9	1172.6	1167.3	1173.2	1189.2
142.5°	1196.9	1207.6	1199.7	1204.7	1221.6
145°	1248.4	1258.0	1249.5	1250.9	1267.0
147.5°	1294.1	1303.6	1293.3	1294.7	1309.7
150°	1323.9	1332.5	1319.5	1321.0	1336.0
152.5°	1350.2	1357.9	1344.1	1343.8	1361.4
155°	1386.3	1394.9	1379.8	1376.9	1396.2
157.5°	1419.2	1427.1	1412.0	1409.9	1424.9
160°	1441.1	1446.5	1431.2	1428.3	1443.3
162.5°	1456.0	1462.2	1447.0	1442.3	1457.3
165°	1478.3	1482.6	1467.4	1461.2	1476.1
167.5°	1497.6	1502.5	1482.9	1477.4	1493.4
170°	1509.0	1512.2	1492.6	1485.3	1501.3
172.5°	1516.0	1518.4	1498.7	1490.4	1501.3
175°	1522.1	1525.3	1505.7	1496.0	1503.5
177.5°	1523.2	1524.9	1510.1	1501.6	1514.5
180°	1514.5	1514.5	1514.5	1514.5	1514.5



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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	18.15	18.97	19.14	19.97	21.30	17.05	17.87	18.04	18.87	20.20
	3H	19.79	20.52	20.80	21.54	22.88	18.58	19.31	19.58	20.32	21.67
	4H	20.42	21.11	21.43	22.13	23.48	19.15	19.84	20.16	20.85	22.21
	6H	20.82	21.46	21.85	22.48	23.84	19.52	20.15	20.54	21.17	22.54
	8H	20.97	21.57	22.00	22.61	23.97	19.65	20.26	20.69	21.30	22.66
	12H	21.04	21.62	22.08	22.65	24.03	19.72	20.29	20.75	21.32	22.71
4H	2H	18.55	19.25	19.58	20.26	21.62	17.68	18.37	18.70	19.39	20.74
	3H	20.42	21.00	21.45	22.04	23.41	19.41	19.99	20.44	21.03	22.40
	4H	21.16	21.69	22.20	22.73	24.12	20.08	20.61	21.12	21.65	23.04
	6H	21.68	22.14	22.73	23.19	24.58	20.56	21.01	21.60	22.07	23.46
	8H	21.88	22.31	22.93	23.36	24.76	20.74	21.17	21.79	22.22	23.62
	12H	21.99	22.37	23.06	23.44	24.85	20.83	21.21	21.90	22.28	23.69
8H	4H	21.32	21.74	22.37	22.79	24.19	20.35	20.78	21.40	21.83	23.23
	6H	21.96	22.31	23.03	23.40	24.80	20.96	21.31	22.03	22.40	23.80
	8H	22.25	22.55	23.33	23.63	25.05	21.23	21.54	22.31	22.61	24.03
	12H	22.42	22.69	23.50	23.76	25.22	21.38	21.65	22.46	22.72	24.18
12H	4H	21.29	21.68	22.36	22.74	24.15	20.35	20.74	21.42	21.80	23.21
	6H	21.99	22.29	23.06	23.37	24.79	21.02	21.33	22.10	22.40	23.82
	8H	22.30	22.57	23.38	23.64	25.10	21.32	21.59	22.41	22.67	24.13