

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: P1438697

Luminaire Tested: CB2-085U-030D-830-1D-UNV-STD-W-4

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438697
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-030D-830-1D-UNV-STD-W-4
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT
2-INCH APERTURE
DOWNLIGHT 300 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

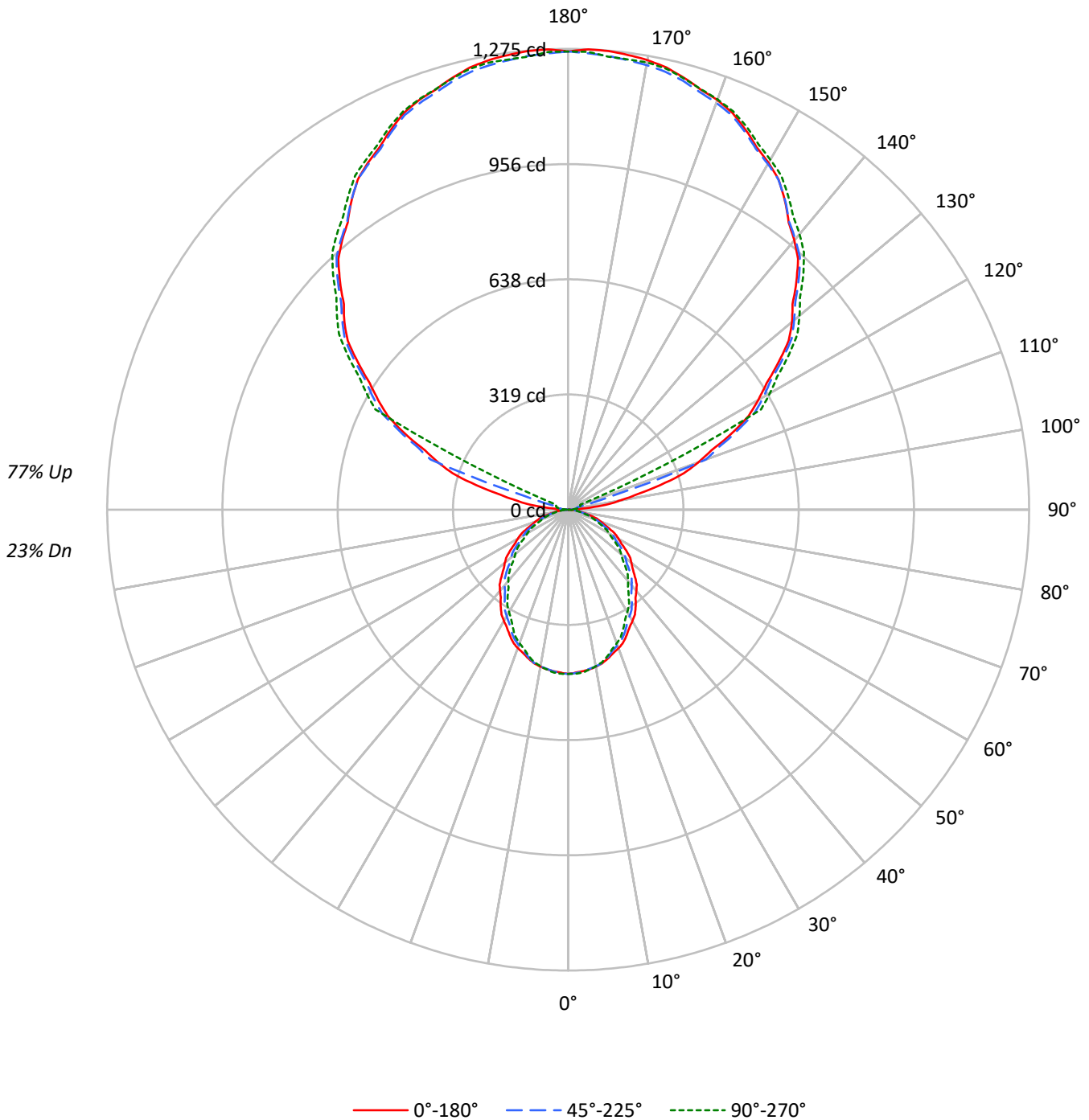
Lumens per Lamp: N/A
Luminaire Lumens: 4674.2 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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

TEST NUMBER: P1438697

CATALOG NUMBER: CB2-085U-030D-830-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P1438697

CATALOG NUMBER: CB2-085U-030D-830-1D-UNV-STD-W-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	50	30	10	0														
RCR																																						
0	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	23																				
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	27	27	26	19																				
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	24	23	22	16																				
3	76	67	60	55	67	60	54	49	46	42	39	33	31	29	22	20	19	14																				
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12																				
5	64	53	45	39	56	47	41	36	37	32	28	27	24	21	17	16	14	10																				
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	9																				
7	54	42	35	30	48	38	32	27	30	25	22	22	19	16	14	13	11	8																				
8	50	38	31	26	44	34	28	24	27	22	19	20	17	15	13	11	10	7																				
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	12	10	9	7																				
10	43	32	25	20	38	29	23	19	23	18	15	17	14	12	11	9	8	6																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7914	7914	7914
5°	7849	7861	7915
10°	7803	7785	7778
15°	7680	7629	7566
20°	7559	7392	7288
25°	7355	7149	6947
30°	7152	6836	6579
35°	6917	6517	6207
40°	6669	6218	5855
45°	6419	5904	5510
50°	6194	5601	5175
55°	5918	5284	4862
60°	5601	4981	4546
65°	5263	4645	4228
70°	4889	4273	3830
75°	4448	3863	3466
80°	3982	3390	3139
85°	3058	2778	2298

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6419 cd/sqm



TEST NUMBER: P1438697

CATALOG NUMBER: CB2-085U-030D-830-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.7	0.9
10°-20°	119.1	2.5
20°-30°	171.3	3.7
30°-40°	192.5	4.1
40°-50°	186.0	4.0
50°-60°	157.1	3.4
60°-70°	112.9	2.4
70°-80°	61.7	1.3
80°-90°	16.5	0.4
90°-100°	22.1	0.5
100°-110°	140.6	3.0
110°-120°	446.7	9.6
120°-130°	648.3	13.9
130°-140°	697.2	14.9
140°-150°	656.4	14.0
150°-160°	534.8	11.4
160°-170°	348.1	7.4
170°-180°	120.3	2.6
0°-30°	333.1	7.1
0°-40°	525.6	11.2
0°-60°	868.7	18.6
0°-90°	1059.8	22.7
90°-120°	609.4	13.0
90°-150°	2611.3	55.9
90°-180°	3614.0	77.3
0°-180°	4674.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	454	454	454	454	454	
5°	449	455	450	450	453	43
15°	426	430	423	419	420	120
25°	383	383	372	364	362	176
35°	325	322	306	295	292	203
45°	261	255	240	227	224	201
55°	195	188	174	163	160	174
65°	128	123	113	105	103	127
75°	66	62	57	53	52	71
85°	15	14	14	12	12	18
90°	0	0	0	1	1	3
95°	50	15	16	10	9	64
105°	264	274	28	32	34	278
115°	500	510	515	521	299	491
125°	709	722	722	734	744	634
135°	893	904	902	908	919	688
145°	1045	1053	1046	1047	1060	653
155°	1160	1168	1155	1152	1169	535
165°	1237	1241	1228	1223	1236	349
175°	1274	1277	1260	1252	1258	121
180°	1268	1268	1268	1268	1268	



TEST NUMBER: P1438697

CATALOG NUMBER: CB2-085U-030D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	454.4	454.4	454.4	454.4	454.4
2.5°	451.4	456.8	452.8	453.3	454.1
5°	448.9	455.0	449.6	449.6	452.7
7.5°	445.7	451.4	444.6	443.4	446.2
10°	441.2	447.0	440.2	437.8	439.8
12.5°	435.4	440.9	434.3	430.5	432.3
15°	425.9	429.6	423.1	419.0	419.6
17.5°	415.6	417.9	408.5	405.0	404.3
20°	407.8	409.8	398.8	393.9	393.2
22.5°	397.8	399.5	387.9	381.9	380.9
25°	382.7	383.1	372.0	363.6	361.5
27.5°	367.0	365.9	353.6	343.6	341.0
30°	355.6	354.2	339.9	329.5	327.1
32.5°	343.4	340.9	326.6	315.3	312.9
35°	325.3	321.6	306.5	294.7	291.9
37.5°	306.1	301.9	287.1	274.2	271.1
40°	293.3	288.6	273.5	260.5	257.5
42.5°	280.5	275.2	259.9	246.9	243.6
45°	260.6	255.2	239.7	227.1	223.7
47.5°	241.7	234.7	219.8	207.2	203.8
50°	228.6	221.1	206.7	194.4	191.0
52.5°	215.2	207.5	193.6	181.9	178.5
55°	194.9	187.7	174.0	163.1	160.1
57.5°	174.7	167.8	155.3	144.9	141.9
60°	160.8	155.0	143.0	133.2	130.5
62.5°	147.4	142.2	130.8	121.8	119.1
65°	127.7	122.9	112.7	104.7	102.6
67.5°	108.6	103.8	95.5	88.3	86.0
70°	96.0	91.3	83.9	77.2	75.2
72.5°	84.1	79.0	73.0	66.9	65.4
75°	66.1	62.0	57.4	52.9	51.5
77.5°	50.2	46.3	42.9	39.7	39.4
80°	39.7	36.3	33.8	31.7	31.3
82.5°	29.6	27.1	25.4	23.9	23.8
85°	15.3	14.3	13.9	12.2	11.5
87.5°	4.5	4.5	3.9	3.5	3.5
90°	0.0	0.0	0.0	0.9	0.9
92.5°	13.9	5.3	3.7	5.3	5.3
95°	50.4	14.6	15.6	10.1	9.2
97.5°	104.7	23.5	22.5	24.8	25.7
100°	145.7	48.0	24.7	28.4	29.3
102.5°	191.2	181.0	25.5	30.7	32.3
105°	264.0	273.8	27.5	32.1	33.9
107.5°	335.5	345.3	128.0	33.2	35.0
110°	383.1	393.0	405.1	34.0	35.7



TEST NUMBER: P1438697

CATALOG NUMBER: CB2-085U-030D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	427.9	439.9	449.1	75.6	37.2
115°	499.5	510.3	515.1	521.1	298.8
117.5°	562.8	576.0	581.5	591.8	601.8
120°	606.8	619.3	623.3	633.6	644.3
122.5°	650.0	661.1	663.6	675.4	685.4
125°	709.4	722.0	722.3	734.4	744.3
127.5°	768.8	779.6	779.1	788.1	799.1
130°	808.4	815.6	815.7	823.3	835.0
132.5°	841.4	851.4	851.7	857.8	869.5
135°	892.7	903.5	901.9	907.7	919.3
137.5°	941.0	951.3	948.5	953.3	965.3
140°	972.5	981.4	977.1	982.0	995.4
142.5°	1001.8	1010.8	1004.2	1008.4	1022.5
145°	1044.9	1053.0	1045.8	1047.0	1060.5
147.5°	1083.2	1091.1	1082.5	1083.7	1096.2
150°	1108.1	1115.3	1104.5	1105.7	1118.2
152.5°	1130.1	1136.6	1125.0	1124.8	1139.5
155°	1160.4	1167.5	1154.9	1152.5	1168.6
157.5°	1187.9	1194.5	1181.8	1180.1	1192.6
160°	1206.2	1210.7	1198.0	1195.5	1208.0
162.5°	1218.7	1223.9	1211.2	1207.2	1219.8
165°	1237.4	1241.0	1228.2	1223.0	1235.5
167.5°	1253.5	1257.6	1241.2	1236.6	1250.0
170°	1263.0	1265.7	1249.3	1243.2	1256.6
172.5°	1268.9	1270.9	1254.4	1247.5	1256.6
175°	1274.0	1276.7	1260.3	1252.2	1258.5
177.5°	1274.9	1276.4	1263.9	1256.9	1267.6
180°	1267.6	1267.6	1267.6	1267.6	1267.6



TEST NUMBER: P1438697

CATALOG NUMBER: CB2-085U-030D-830-1D-UNV-STD-W-4

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	10.85	11.50	12.01	12.65	14.27	9.75	10.40	10.91	11.55	13.17
	3H	12.48	13.06	13.65	14.22	15.85	11.26	11.85	12.43	13.00	14.63
	4H	13.10	13.65	14.28	14.81	16.44	11.82	12.38	13.00	13.54	15.17
	6H	13.49	14.00	14.67	15.16	16.80	12.19	12.70	13.37	13.86	15.50
	8H	13.63	14.12	14.82	15.29	16.93	12.32	12.81	13.51	13.98	15.62
	12H	13.70	14.16	14.89	15.33	16.98	12.38	12.84	13.57	14.00	15.66
4H	2H	11.23	11.79	12.42	12.94	14.58	10.36	10.91	11.54	12.07	13.70
	3H	13.08	13.55	14.27	14.73	16.37	12.07	12.54	13.26	13.72	15.37
	4H	13.82	14.25	15.01	15.42	17.08	12.74	13.17	13.93	14.34	16.00
	6H	14.33	14.69	15.52	15.89	17.54	13.20	13.57	14.40	14.76	16.41
	8H	14.53	14.87	15.72	16.05	17.72	13.39	13.73	14.58	14.91	16.58
	12H	14.62	14.93	15.83	16.13	17.80	13.47	13.78	14.68	14.97	16.64
8H	4H	13.96	14.30	15.15	15.48	17.15	13.00	13.34	14.19	14.52	16.19
	6H	14.59	14.88	15.81	16.10	17.77	13.59	13.87	14.81	15.10	16.77
	8H	14.88	15.13	16.10	16.33	18.02	13.87	14.11	15.08	15.31	17.00
	12H	15.05	15.26	16.27	16.46	18.18	14.01	14.22	15.23	15.42	17.14
12H	4H	13.93	14.24	15.14	15.43	17.11	12.99	13.30	14.20	14.49	16.17
	6H	14.62	14.87	15.84	16.07	17.76	13.65	13.90	14.87	15.10	16.79
	8H	14.93	15.14	16.15	16.34	18.06	13.95	14.17	15.17	15.37	17.08