

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: P1438929

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

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438929
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2405-119-1, G2-2312-242-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/31/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: CB2-B-085U-085D-927-1D-UNV-STD-W-4
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT
2-INCH APERTURE
DOWNLIGHT 850 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

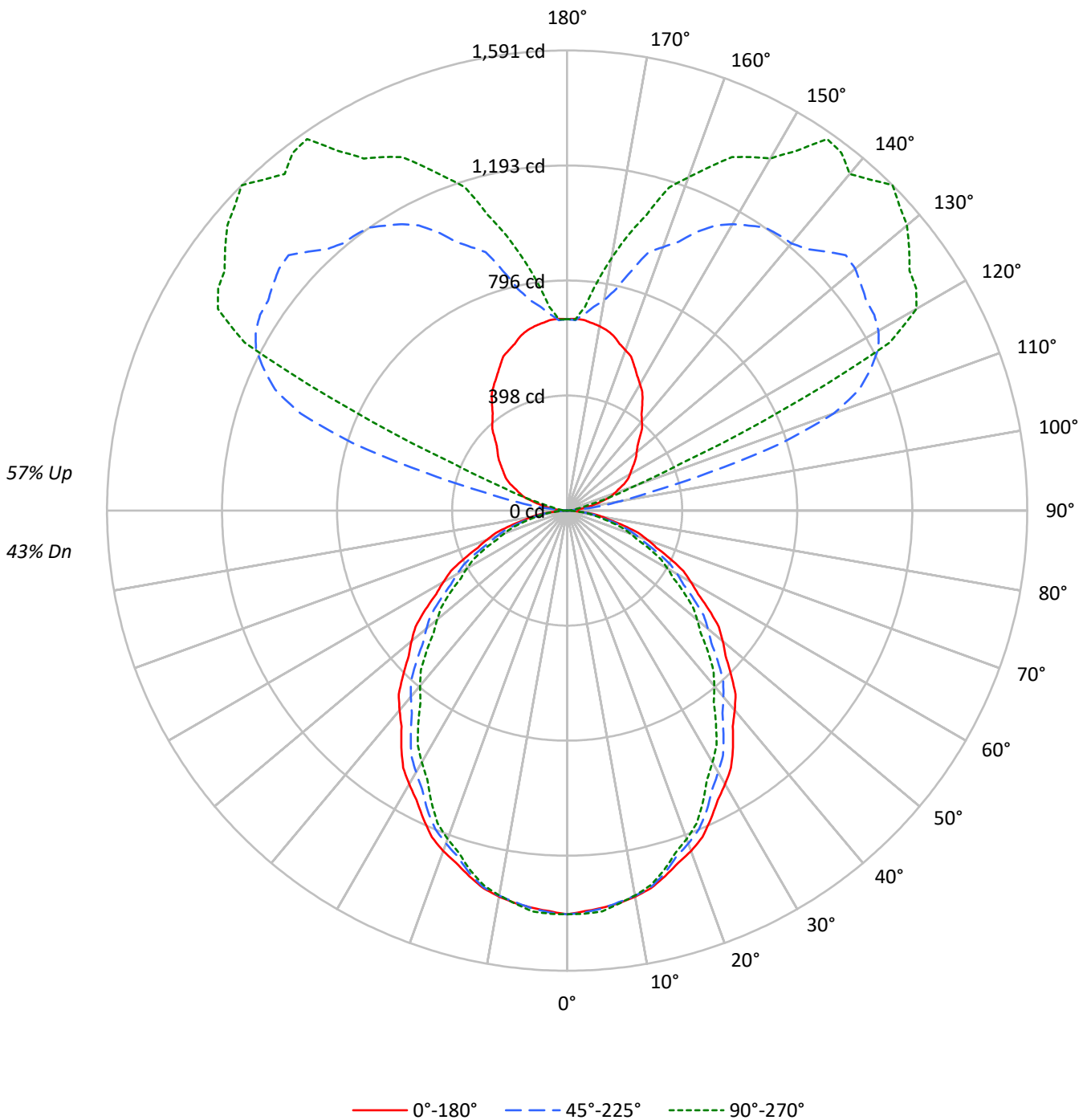
Lumens per Lamp: N/A
Luminaire Lumens: 7601.5 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 53.3
Input Voltage (V): 120
Input Current (A_{in}): 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										
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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43																				
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36																				
2	88	81	75	70	80	74	69	64	61	58	54	50	47	45	39	37	36	31																				
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	32	31	26																				
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	26	23																				
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	20																				
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	25	23	20	17																				
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	16																				
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	21	19	16	14																				
9	50	38	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13																				
10	46	34	27	23	42	32	26	21	27	22	19	23	19	16	18	16	13	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	1.7
10°-20°	365.9	4.8
20°-30°	526.2	6.9
30°-40°	591.4	7.8
40°-50°	571.3	7.5
50°-60°	482.7	6.4
60°-70°	346.7	4.6
70°-80°	189.5	2.5
80°-90°	50.3	0.7
90°-100°	49.6	0.7
100°-110°	306.9	4.0
110°-120°	774.0	10.2
120°-130°	930.4	12.2
130°-140°	843.6	11.1
140°-150°	672.7	8.8
150°-160°	458.8	6.0
160°-170°	242.7	3.2
170°-180°	67.5	0.9
0°-30°	1023.4	13.5
0°-40°	1614.8	21.2
0°-60°	2668.8	35.1
0°-90°	3255.4	42.8
90°-120°	1130.5	14.9
90°-150°	3577.1	47.1
90°-180°	4346.0	57.2
0°-180°	7601.5	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	0	0	3
95°	26	65	20	14	14	33
105°	125	351	508	127	86	132
115°	217	479	1158	1078	821	213
125°	282	580	1263	1437	1446	253
135°	354	643	1266	1482	1591	275
145°	453	676	1195	1440	1568	283
155°	550	690	1063	1282	1348	253
165°	624	683	858	1010	1058	175
175°	661	670	681	693	707	63
180°	661	661	661	661	661	



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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	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	6.8	11.3	4.6	4.6	4.6
95°	25.7	64.7	20.0	14.3	14.3
97.5°	53.6	155.1	107.8	29.0	25.1
100°	74.1	224.7	185.3	42.6	34.2
102.5°	94.7	285.3	292.5	67.5	52.5
105°	125.4	351.2	507.5	127.3	85.5
107.5°	155.7	394.3	777.8	262.8	158.5
110°	173.9	419.2	980.7	409.7	245.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	192.2	444.2	1092.5	656.7	423.1
115°	216.7	478.7	1157.5	1077.6	821.1
117.5°	237.2	510.4	1213.4	1332.6	1257.3
120°	250.9	535.2	1243.0	1369.1	1394.1
122.5°	264.6	553.4	1259.0	1383.2	1430.6
125°	282.3	580.5	1263.0	1437.1	1445.5
127.5°	299.9	601.0	1281.8	1486.6	1490.5
130°	313.6	614.7	1300.1	1503.2	1533.8
132.5°	329.6	626.2	1306.9	1512.7	1558.9
135°	353.5	643.4	1265.8	1482.1	1590.9
137.5°	383.7	655.8	1226.5	1481.3	1551.5
140°	402.0	658.5	1206.0	1514.0	1519.6
142.5°	422.5	665.6	1201.4	1510.4	1558.4
145°	453.3	676.3	1194.6	1439.8	1568.1
147.5°	484.1	683.1	1168.3	1361.9	1474.0
150°	504.6	685.8	1143.3	1335.9	1405.5
152.5°	525.2	688.5	1111.3	1319.6	1378.2
155°	550.2	689.6	1063.4	1281.6	1348.5
157.5°	576.5	686.3	1005.8	1212.2	1285.2
160°	590.2	682.2	969.3	1161.8	1225.9
162.5°	603.8	680.2	937.4	1095.9	1171.2
165°	624.4	682.9	858.2	1010.3	1057.7
167.5°	638.1	680.4	784.0	908.7	975.6
170°	647.2	680.6	738.4	830.9	886.7
172.5°	654.0	669.6	711.0	759.8	797.7
175°	661.4	669.8	681.4	693.1	707.1
177.5°	663.7	668.2	659.2	657.0	661.4
180°	661.4	661.4	661.4	661.4	661.4



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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	17.38	18.18	18.40	19.20	20.57	16.28	17.08	17.30	18.10	19.47
	3H	19.02	19.73	20.05	20.77	22.16	17.81	18.52	18.84	19.55	20.94
	4H	19.65	20.32	20.69	21.36	22.76	18.38	19.05	19.42	20.09	21.48
	6H	20.05	20.67	21.10	21.71	23.12	18.74	19.36	19.80	20.40	21.81
	8H	20.20	20.78	21.25	21.84	23.25	18.88	19.47	19.94	20.53	21.93
	12H	20.27	20.83	21.33	21.88	23.31	18.94	19.50	20.00	20.55	21.98
4H	2H	17.78	18.46	18.83	19.49	20.89	16.91	17.58	17.96	18.62	20.02
	3H	19.65	20.21	20.70	21.27	22.68	18.64	19.20	19.69	20.26	21.68
	4H	20.39	20.90	21.45	21.96	23.39	19.31	19.82	20.37	20.88	22.31
	6H	20.91	21.35	21.98	22.43	23.86	19.78	20.22	20.85	21.30	22.73
	8H	21.11	21.52	22.18	22.59	24.04	19.97	20.38	21.04	21.45	22.90
	12H	21.21	21.58	22.30	22.67	24.12	20.05	20.43	21.14	21.51	22.96
8H	4H	20.54	20.95	21.61	22.03	23.47	19.58	19.99	20.65	21.06	22.50
	6H	21.18	21.52	22.28	22.63	24.08	20.18	20.52	21.27	21.63	23.07
	8H	21.47	21.77	22.57	22.87	24.33	20.45	20.75	21.55	21.85	23.31
	12H	21.64	21.90	22.75	23.00	24.50	20.60	20.86	21.71	21.95	23.45
12H	4H	20.52	20.89	21.61	21.98	23.42	19.58	19.95	20.67	21.04	22.48
	6H	21.21	21.51	22.31	22.60	24.06	20.24	20.54	21.34	21.64	23.10
	8H	21.52	21.78	22.63	22.88	24.38	20.54	20.81	21.65	21.90	23.40