

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: P1439456

Luminaire Tested: CB3-B-085U-085D-940-1D-UNV-STD-W-8

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1439456
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2405-119-2, G2-2312-242-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/31/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: CB3-B-085U-085D-940-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT
3-INCH APERTURE
DOWNLIGHT 850 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

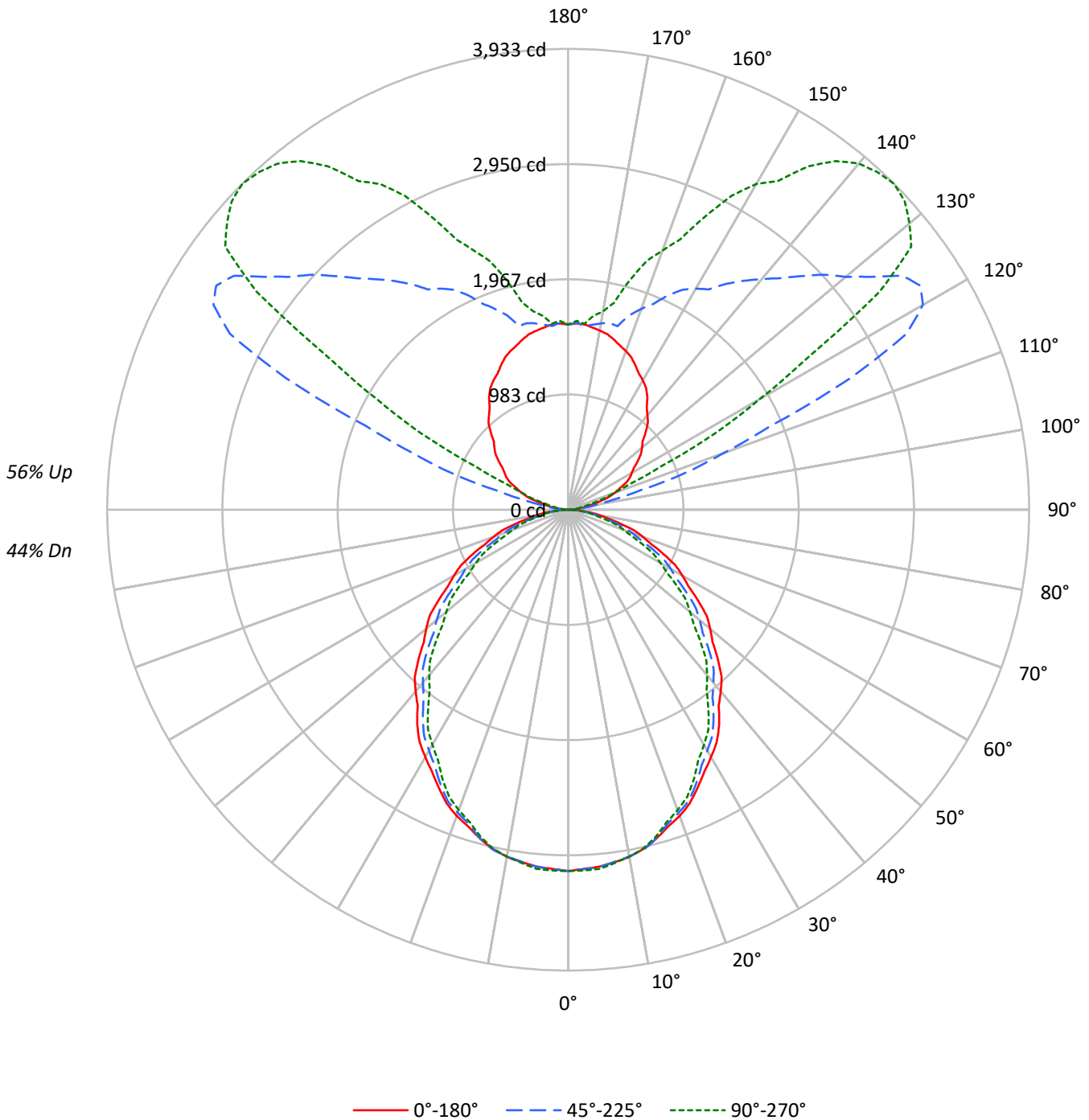
Lumens per Lamp: N/A
Luminaire Lumens: 16676.2 lumens
Efficiency: N/A
Efficacy: 154.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.24' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 108.3
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

TEST NUMBER: P1439456

CATALOG NUMBER: CB3-B-085U-085D-940-1D-UNV-STD-W-8

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	0
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	92	89	85	88	85	82	79	70	68	66	57	56	54	45	44	43	38
2	88	81	75	70	80	74	69	65	62	58	55	51	48	46	40	38	37	32
3	80	71	64	58	73	66	59	54	55	50	46	45	41	39	36	33	31	27
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	29	27	23
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	20
6	62	50	43	37	57	47	40	34	39	34	30	33	28	25	26	23	21	18
7	58	46	38	32	53	42	35	30	36	30	26	30	26	22	24	21	19	16
8	53	41	34	29	49	38	32	27	33	27	23	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	35	28	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17445	17445	17445
5°	17363	17375	17475
10°	17287	17261	17261
15°	17022	17022	16919
20°	16746	16574	16429
25°	16323	16118	15831
30°	15924	15509	15136
35°	15504	14929	14400
40°	14945	14233	13619
45°	14439	13615	12774
50°	13917	12876	11951
55°	13350	12161	11168
60°	12737	11423	10284
65°	12020	10583	9352
70°	11193	9600	8332
75°	10149	8426	7421
80°	8848	7063	6565
85°	6822	5972	5972

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14439 cd/sqm



TEST NUMBER: P1439456

CATALOG NUMBER: CB3-B-085U-085D-940-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.9	1.7
10°-20°	817.4	4.9
20°-30°	1187.6	7.1
30°-40°	1350.2	8.1
40°-50°	1310.8	7.9
50°-60°	1106.6	6.6
60°-70°	787.3	4.7
70°-80°	420.7	2.5
80°-90°	111.1	0.7
90°-100°	106.8	0.6
100°-110°	559.9	3.4
110°-120°	1409.5	8.5
120°-130°	2174.4	13.0
130°-140°	1990.6	11.9
140°-150°	1469.1	8.8
150°-160°	936.5	5.6
160°-170°	493.0	3.0
170°-180°	153.5	0.9
0°-30°	2295.9	13.8
0°-40°	3646.2	21.9
0°-60°	6063.6	36.4
0°-90°	7382.7	44.3
90°-120°	2076.3	12.5
90°-150°	7710.4	46.2
90°-180°	9293.0	55.7
0°-180°	16676.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3084	3084	3084	3084	3084	
5°	3057	3096	3060	3056	3077	290
15°	2906	2932	2906	2889	2889	819
25°	2615	2624	2582	2547	2536	1205
35°	2245	2224	2162	2098	2085	1399
45°	1805	1777	1702	1620	1597	1392
55°	1354	1317	1233	1154	1132	1210
65°	898	866	791	720	699	889
75°	464	439	386	346	340	495
85°	105	97	92	92	92	125
90°	0	0	0	0	0	7
95°	56	158	63	35	35	71
105°	285	884	640	263	216	305
115°	543	1108	2659	1156	877	529
125°	724	1119	3480	3509	3244	648
135°	933	1246	2819	3844	3933	721
145°	1176	1360	2353	3272	3578	731
155°	1357	1459	2019	2498	2756	626
165°	1504	1544	1622	1896	2026	424
175°	1587	1621	1573	1580	1594	150
180°	1580	1580	1580	1580	1580	



TEST NUMBER: P1439456

CATALOG NUMBER: CB3-B-085U-085D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3083.7	3083.7	3083.7	3083.7	3083.7
2.5°	3067.9	3098.8	3071.4	3075.1	3081.9
5°	3057.4	3096.0	3059.6	3055.7	3077.1
7.5°	3033.8	3068.9	3031.1	3022.4	3041.6
10°	3009.2	3047.8	3004.8	2994.1	3004.8
12.5°	2965.4	3005.7	2971.6	2953.8	2962.8
15°	2906.3	2932.0	2906.3	2888.8	2888.8
17.5°	2834.0	2861.0	2812.6	2800.2	2795.5
20°	2781.5	2805.0	2753.0	2735.3	2728.9
22.5°	2711.4	2733.2	2689.9	2659.9	2651.8
25°	2615.0	2623.6	2582.1	2546.9	2536.2
27.5°	2518.2	2520.3	2463.4	2420.6	2406.5
30°	2437.6	2439.7	2374.1	2327.9	2317.1
32.5°	2357.0	2350.6	2288.2	2233.3	2226.0
35°	2244.9	2223.5	2161.6	2097.8	2085.0
37.5°	2109.5	2096.7	2023.7	1959.7	1940.4
40°	2023.7	2002.3	1927.3	1863.4	1844.1
42.5°	1937.8	1913.0	1836.2	1765.2	1744.2
45°	1804.7	1776.8	1701.7	1620.2	1596.6
47.5°	1670.6	1640.2	1557.6	1478.6	1452.5
50°	1581.3	1549.1	1463.0	1385.7	1357.9
52.5°	1490.2	1456.3	1370.1	1291.2	1268.5
55°	1353.5	1317.1	1233.0	1153.7	1132.3
57.5°	1216.8	1180.9	1097.2	1022.2	996.5
60°	1125.7	1091.5	1009.6	934.6	908.9
62.5°	1032.9	1000.3	920.3	847.0	823.0
65°	897.9	865.8	790.6	720.1	698.6
67.5°	764.4	736.9	662.7	598.0	580.8
70°	676.7	651.0	580.4	520.9	503.7
72.5°	592.6	565.2	498.0	447.4	435.4
75°	464.3	438.6	385.5	345.9	339.5
77.5°	346.9	325.9	279.9	257.5	254.1
80°	271.6	252.3	216.8	201.5	201.5
82.5°	201.5	185.6	162.5	155.9	155.9
85°	105.1	96.6	92.0	92.0	92.0
87.5°	31.5	31.5	29.8	28.0	28.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.7	38.5	11.1	5.7	11.1
95°	55.7	157.8	62.6	34.8	34.8
97.5°	115.5	352.4	161.5	86.1	78.0
100°	160.1	500.4	250.6	125.0	111.4
102.5°	210.2	648.5	378.7	169.3	144.8
105°	285.4	884.3	640.4	263.4	215.8
107.5°	368.9	1045.4	1055.2	406.1	327.1
110°	424.6	1112.0	1406.0	533.2	410.7



TEST NUMBER: P1439456

CATALOG NUMBER: CB3-B-085U-085D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	474.7	1129.4	1873.8	727.1	561.0
115°	542.9	1107.8	2658.9	1156.1	877.0
117.5°	593.0	1054.5	3254.8	1839.2	1418.6
120°	626.4	1055.2	3494.2	2355.9	1886.3
122.5°	665.4	1061.5	3561.0	2869.1	2437.6
125°	723.9	1118.6	3480.3	3509.0	3243.6
127.5°	782.4	1160.8	3263.1	3772.1	3689.1
130°	821.3	1188.9	3090.5	3861.7	3800.5
132.5°	860.3	1217.0	2968.0	3863.8	3895.1
135°	932.7	1245.8	2819.0	3844.2	3932.7
137.5°	1006.5	1281.5	2679.8	3722.5	3906.3
140°	1051.0	1309.7	2568.4	3590.7	3856.1
142.5°	1101.2	1332.6	2462.6	3468.6	3750.3
145°	1176.3	1360.1	2352.7	3271.5	3577.7
147.5°	1234.8	1375.0	2228.8	3072.6	3325.8
150°	1273.8	1375.9	2178.7	2895.7	3208.8
152.5°	1307.2	1403.8	2117.4	2733.6	3019.5
155°	1357.3	1459.4	2018.6	2497.8	2756.4
157.5°	1407.4	1505.4	1901.6	2321.9	2497.4
160°	1440.8	1522.5	1823.7	2237.0	2352.7
162.5°	1468.7	1539.5	1740.1	2092.6	2224.6
165°	1503.5	1544.3	1621.8	1896.2	2025.5
167.5°	1535.5	1555.9	1631.6	1703.5	1808.4
170°	1552.2	1572.6	1614.8	1685.2	1719.3
172.5°	1568.9	1600.2	1592.6	1640.6	1669.1
175°	1587.0	1621.0	1573.1	1580.4	1594.0
177.5°	1591.2	1607.5	1596.7	1597.1	1613.5
180°	1580.0	1580.0	1580.0	1580.0	1580.0



TEST NUMBER: P1439456

CATALOG NUMBER: CB3-B-085U-085D-940-1D-UNV-STD-W-8

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	16.53	17.33	17.53	18.35	19.70	15.45	16.25	16.46	17.27	18.62
	3H	18.19	18.91	19.21	19.93	21.30	16.86	17.58	17.88	18.60	19.97
	4H	18.82	19.50	19.85	20.53	21.91	17.37	18.05	18.40	19.08	20.46
	6H	19.20	19.83	20.24	20.86	22.25	17.69	18.31	18.73	19.35	20.74
	8H	19.33	19.93	20.38	20.98	22.37	17.81	18.41	18.85	19.45	20.84
	12H	19.40	19.97	20.45	21.01	22.42	17.88	18.45	18.93	19.49	20.90
4H	2H	16.93	17.61	17.96	18.64	20.02	16.07	16.75	17.11	17.78	19.16
	3H	18.81	19.38	19.86	20.44	21.83	17.68	18.25	18.73	19.31	20.70
	4H	19.56	20.08	20.61	21.13	22.54	18.29	18.81	19.34	19.85	21.27
	6H	20.06	20.50	21.12	21.57	22.98	18.70	19.14	19.76	20.21	21.62
	8H	20.25	20.66	21.31	21.73	23.15	18.87	19.28	19.93	20.34	21.77
	12H	20.34	20.72	21.42	21.80	23.23	18.97	19.34	20.05	20.42	21.85
8H	4H	19.68	20.10	20.74	21.16	22.59	18.54	18.96	19.61	20.02	21.45
	6H	20.30	20.64	21.38	21.75	23.17	19.07	19.41	20.16	20.52	21.94
	8H	20.58	20.88	21.67	21.97	23.41	19.32	19.62	20.41	20.71	22.15
	12H	20.74	21.00	21.83	22.09	23.57	19.50	19.76	20.59	20.85	22.33
12H	4H	19.65	20.03	20.73	21.11	22.54	18.54	18.92	19.62	20.00	21.43
	6H	20.32	20.62	21.41	21.71	23.15	19.13	19.43	20.22	20.52	21.96
	8H	20.61	20.88	21.71	21.96	23.44	19.41	19.67	20.50	20.76	22.24