

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: P1439246

Luminaire Tested: CB3-085U-085D-830-1D-UNV-STD-W-8

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1439246
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2506-466-2, G2-2312-242-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/31/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: CB3-085U-085D-830-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT
3-INCH APERTURE
DOWNLIGHT 850 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

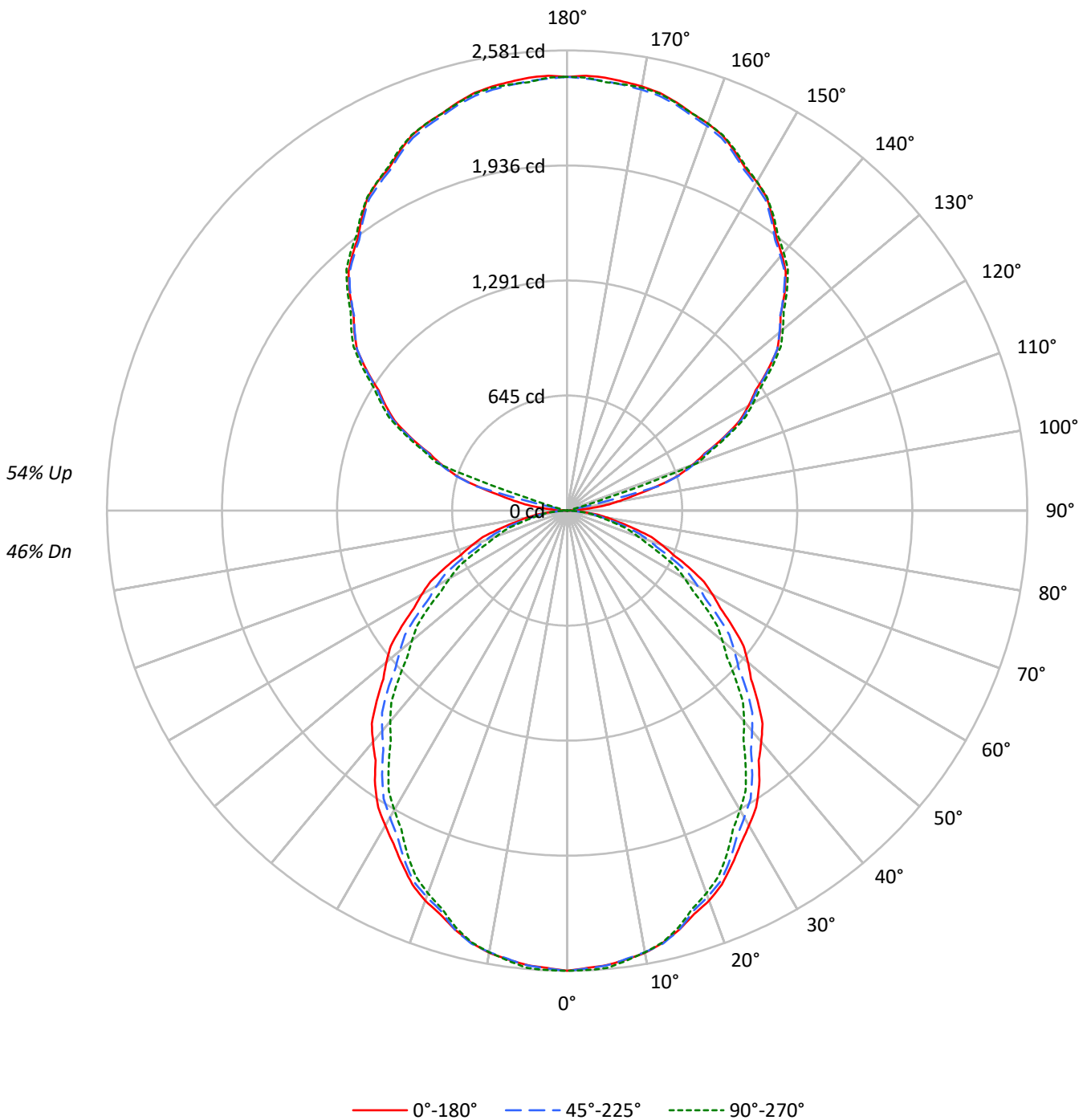
Lumens per Lamp: N/A
Luminaire Lumens: 13358.6 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.24' x L: 8' x H: 0')
CIE Type: General Diffuse

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

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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	50	30	10	0		
RCR																										
0	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53	46					46			
1	97	93	89	86	89	85	82	79	71	69	67	59	57	56	47	46	45					39				
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	41	40	38					33				
3	81	72	64	59	74	66	60	55	56	51	47	46	42	40	37	35	33					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	32	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	32	26	22	28	23	19	24	20	17	20	17	14					12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14602	14602	14602
5°	14533	14543	14627
10°	14469	14448	14448
15°	14247	14247	14161
20°	14016	13873	13751
25°	13663	13491	13251
30°	13328	12981	12670
35°	12977	12496	12052
40°	12509	11914	11399
45°	12085	11395	10692
50°	11648	10777	10003
55°	11174	10180	9347
60°	10661	9562	8608
65°	10061	8859	7828
70°	9369	8036	6974
75°	8494	7051	6210
80°	7405	5913	5493
85°	5712	4998	4998

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12085 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.5	1.8
10°-20°	684.2	5.1
20°-30°	994.0	7.4
30°-40°	1130.1	8.5
40°-50°	1097.1	8.2
50°-60°	926.3	6.9
60°-70°	659.0	4.9
70°-80°	352.1	2.6
80°-90°	93.1	0.7
90°-100°	56.2	0.4
100°-110°	406.8	3.0
110°-120°	967.2	7.2
120°-130°	1235.7	9.3
130°-140°	1332.9	10.0
140°-150°	1256.5	9.4
150°-160°	1025.0	7.7
160°-170°	667.9	5.0
170°-180°	230.9	1.7
0°-30°	1921.7	14.4
0°-40°	3051.9	22.8
0°-60°	5075.2	38.0
0°-90°	6179.5	46.3
90°-120°	1430.2	10.7
90°-150°	5255.3	39.3
90°-180°	7179.0	53.7
0°-180°	13358.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2581	2581	2581	2581	2581	
5°	2559	2591	2561	2558	2576	243
15°	2433	2454	2433	2418	2418	685
25°	2189	2196	2161	2132	2123	1008
35°	1879	1861	1809	1756	1745	1171
45°	1510	1487	1424	1356	1336	1165
55°	1133	1102	1032	966	948	1013
65°	752	725	662	603	585	744
75°	389	367	323	290	284	414
85°	88	81	77	77	77	104
90°	0	0	0	2	0	7
95°	103	18	24	26	26	127
105°	515	522	530	38	40	543
115°	966	973	975	990	995	953
125°	1373	1382	1378	1393	1402	1225
135°	1725	1734	1720	1733	1743	1328
145°	2007	2020	1994	2008	2018	1256
155°	2224	2242	2211	2217	2231	1025
165°	2370	2383	2357	2350	2367	669
175°	2438	2451	2418	2405	2412	232
180°	2433	2433	2433	2433	2433	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2581.1	2581.1	2581.1	2581.1	2581.1
2.5°	2567.9	2593.7	2570.8	2573.9	2579.6
5°	2559.1	2591.3	2560.9	2557.6	2575.6
7.5°	2539.3	2568.7	2537.1	2529.7	2545.9
10°	2518.7	2551.0	2515.1	2506.1	2515.1
12.5°	2482.1	2515.8	2487.2	2472.3	2479.9
15°	2432.6	2454.1	2432.6	2417.9	2417.9
17.5°	2372.1	2394.7	2354.1	2343.8	2339.8
20°	2328.1	2347.8	2304.3	2289.5	2284.1
22.5°	2269.4	2287.7	2251.5	2226.4	2219.6
25°	2188.8	2195.9	2161.3	2131.7	2122.8
27.5°	2107.7	2109.5	2061.9	2026.1	2014.3
30°	2040.3	2042.1	1987.1	1948.4	1939.5
32.5°	1972.8	1967.4	1915.3	1869.3	1863.2
35°	1879.0	1861.0	1809.3	1755.9	1745.1
37.5°	1765.7	1754.9	1693.8	1640.3	1624.2
40°	1693.8	1675.9	1613.2	1559.6	1543.5
42.5°	1622.0	1601.2	1536.9	1477.5	1459.9
45°	1510.5	1487.2	1424.3	1356.1	1336.4
47.5°	1398.3	1372.9	1303.7	1237.6	1215.7
50°	1323.5	1296.6	1224.5	1159.8	1136.5
52.5°	1247.3	1218.9	1146.8	1080.8	1061.8
55°	1132.9	1102.4	1032.1	965.7	947.7
57.5°	1018.5	988.4	918.4	855.6	834.1
60°	942.2	913.6	845.1	782.3	760.8
62.5°	864.5	837.3	770.3	709.0	688.9
65°	751.6	724.7	661.8	602.7	584.8
67.5°	639.8	616.8	554.7	500.5	486.1
70°	566.4	544.9	485.8	436.0	421.6
72.5°	496.0	473.1	416.9	374.5	364.4
75°	388.6	367.1	322.6	289.5	284.1
77.5°	290.4	272.8	234.3	215.5	212.6
80°	227.3	211.2	181.5	168.6	168.6
82.5°	168.6	155.4	136.0	130.5	130.5
85°	88.0	80.8	77.0	77.0	77.0
87.5°	26.4	26.4	24.9	23.8	23.5
90°	0.0	0.0	0.0	1.8	0.0
92.5°	27.9	10.7	8.8	10.6	10.3
95°	102.7	18.4	23.8	25.7	25.7
97.5°	206.8	202.8	27.9	33.4	33.7
100°	286.0	294.9	29.3	34.9	36.7
102.5°	374.0	381.5	54.3	36.3	38.1
105°	515.1	522.3	529.8	38.5	40.3
107.5°	655.5	660.9	665.8	599.3	224.4
110°	747.9	753.3	755.3	773.7	777.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	834.4	841.3	844.7	860.3	866.7
115°	966.1	973.2	975.2	990.0	995.4
117.5°	1091.1	1098.6	1102.1	1114.0	1122.6
120°	1173.2	1182.2	1184.2	1199.0	1206.2
122.5°	1253.9	1264.3	1263.4	1276.8	1286.9
125°	1373.0	1382.0	1378.5	1393.4	1402.4
127.5°	1486.3	1491.7	1484.1	1502.2	1509.8
130°	1558.2	1563.5	1554.5	1571.2	1580.2
132.5°	1624.2	1632.4	1622.0	1637.2	1646.2
135°	1725.0	1733.9	1719.5	1732.6	1743.3
137.5°	1814.8	1825.6	1808.2	1823.5	1832.8
140°	1873.5	1884.2	1862.5	1879.2	1890.0
142.5°	1927.7	1941.4	1915.3	1930.6	1942.8
145°	2007.3	2019.8	1994.5	2007.5	2018.3
147.5°	2082.8	2093.6	2069.2	2078.6	2086.1
150°	2128.3	2139.0	2111.8	2121.1	2130.1
152.5°	2164.9	2180.0	2152.8	2159.4	2172.6
155°	2223.6	2241.5	2210.8	2216.6	2230.9
157.5°	2277.5	2293.6	2262.8	2267.9	2280.4
160°	2309.8	2325.9	2295.1	2297.2	2309.8
162.5°	2334.7	2349.4	2323.0	2319.3	2334.7
165°	2370.2	2382.8	2357.4	2350.4	2366.6
167.5°	2399.9	2414.3	2383.1	2377.3	2395.5
170°	2416.1	2430.4	2397.7	2389.0	2408.7
172.5°	2426.3	2439.2	2408.0	2396.3	2411.7
175°	2438.1	2450.6	2417.9	2405.2	2412.4
177.5°	2441.4	2451.4	2425.2	2413.9	2431.1
180°	2432.6	2432.6	2432.6	2432.6	2432.6



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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	16.11	16.93	17.10	17.93	19.25	15.03	15.85	16.02	16.85	18.17
	3H	17.77	18.50	18.77	19.51	20.86	16.44	17.17	17.44	18.18	19.53
	4H	18.40	19.09	19.41	20.11	21.46	16.95	17.65	17.97	18.66	20.02
	6H	18.78	19.42	19.81	20.44	21.81	17.27	17.91	18.29	18.93	20.29
	8H	18.92	19.53	19.95	20.56	21.92	17.39	18.00	18.42	19.03	20.40
	12H	18.98	19.56	20.02	20.59	21.98	17.47	18.04	18.50	19.07	20.46
4H	2H	16.51	17.20	17.53	18.22	19.57	15.65	16.35	16.67	17.36	18.71
	3H	18.40	18.97	19.42	20.02	21.38	17.27	17.84	18.30	18.89	20.25
	4H	19.14	19.67	20.18	20.71	22.10	17.87	18.40	18.91	19.43	20.82
	6H	19.64	20.10	20.69	21.15	22.54	18.28	18.74	19.33	19.79	21.18
	8H	19.83	20.26	20.88	21.31	22.71	18.45	18.87	19.50	19.92	21.33
	12H	19.93	20.31	20.99	21.38	22.78	18.55	18.94	19.62	20.00	21.41
8H	4H	19.27	19.69	20.32	20.74	22.14	18.13	18.55	19.18	19.60	21.00
	6H	19.89	20.24	20.96	21.33	22.73	18.66	19.01	19.73	20.10	21.50
	8H	20.16	20.47	21.24	21.55	22.96	18.91	19.22	19.99	20.29	21.71
	12H	20.32	20.59	21.41	21.67	23.12	19.08	19.35	20.16	20.42	21.88
12H	4H	19.24	19.62	20.31	20.69	22.09	18.13	18.51	19.20	19.58	20.98
	6H	19.90	20.21	20.98	21.29	22.70	18.71	19.02	19.79	20.10	21.51
	8H	20.20	20.47	21.28	21.54	23.00	18.99	19.26	20.07	20.33	21.79