

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: P1438739

Luminaire Tested: CB2-085U-120D-830-1D-UNV-STD-W-4

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438739
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-120D-830-1D-UNV-STD-W-4
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT
2-INCH APERTURE
DOWNLIGHT 1200 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

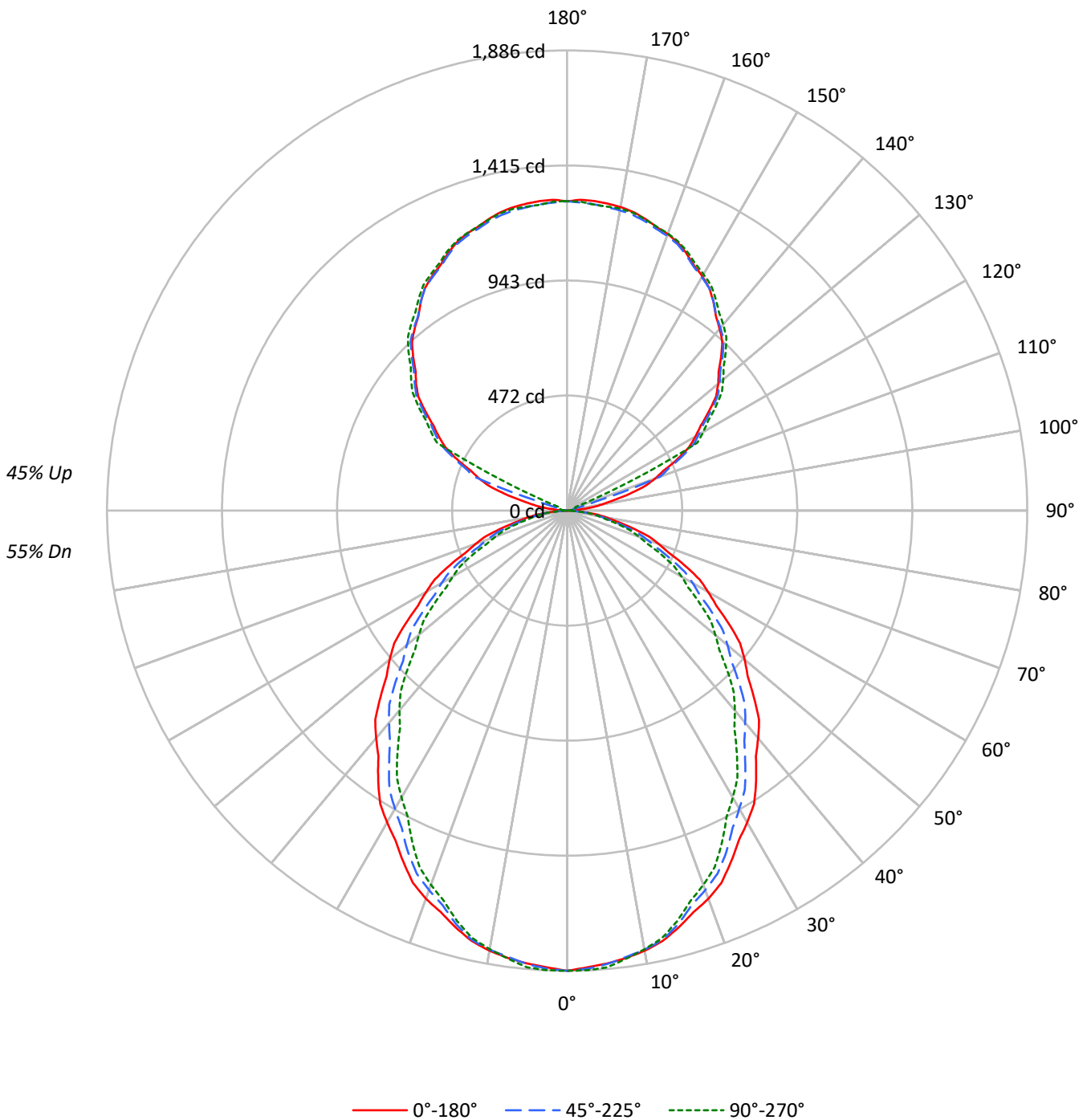
Lumens per Lamp: N/A
Luminaire Lumens: 8013.2 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 67.8
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	0
RCR																		
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	87	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	72	84	77	72	67	67	63	59	57	54	51	48	46	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	53	47	43	45	41	38	38	35	32	29
5	70	58	50	44	64	54	47	42	47	41	37	41	36	33	34	31	28	25
6	64	52	44	38	59	49	42	36	43	37	33	37	32	29	31	28	25	22
7	59	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	22	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	25	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32854	32854	32854
5°	32576	32627	32854
10°	32390	32314	32289
15°	31878	31669	31410
20°	31376	30679	30251
25°	30533	29672	28840
30°	29687	28380	27306
35°	28715	27057	25766
40°	27684	25813	24301
45°	26647	24514	22876
50°	25712	23246	21485
55°	24560	21930	20175
60°	23245	20678	18866
65°	21847	19288	17561
70°	20299	17727	15889
75°	18466	16037	14388
80°	16520	14052	13039
85°	12710	11551	9532

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26647 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	2.2
10°-20°	494.5	6.2
20°-30°	711.0	8.9
30°-40°	799.1	10.0
40°-50°	771.9	9.6
50°-60°	652.2	8.1
60°-70°	468.5	5.8
70°-80°	256.1	3.2
80°-90°	68.1	0.8
90°-100°	22.1	0.3
100°-110°	140.6	1.8
110°-120°	446.7	5.6
120°-130°	648.3	8.1
130°-140°	697.2	8.7
140°-150°	656.4	8.2
150°-160°	534.8	6.7
160°-170°	348.1	4.3
170°-180°	120.3	1.5
0°-30°	1382.8	17.3
0°-40°	2182.0	27.2
0°-60°	3606.1	45.0
0°-90°	4398.8	54.9
90°-120°	609.4	7.6
90°-150°	2611.3	32.6
90°-180°	3614.0	45.1
0°-180°	8013.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1886	1886	1886	1886	1886	
5°	1863	1889	1866	1866	1879	177
15°	1768	1783	1756	1739	1742	498
25°	1589	1590	1544	1509	1501	731
35°	1350	1335	1272	1223	1212	844
45°	1082	1059	995	943	929	836
55°	809	779	722	677	664	723
65°	530	510	468	435	426	526
75°	274	258	238	219	214	294
85°	64	59	58	50	48	76
90°	0	0	0	1	1	4
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1886.3	1886.3	1886.3	1886.3	1886.3
2.5°	1873.6	1896.2	1879.4	1881.8	1885.2
5°	1863.2	1888.6	1866.1	1866.4	1879.1
7.5°	1849.9	1873.9	1845.6	1840.4	1852.2
10°	1831.4	1855.4	1827.1	1817.2	1825.7
12.5°	1807.2	1830.0	1802.8	1787.1	1794.5
15°	1767.9	1783.4	1756.3	1739.1	1741.9
17.5°	1725.1	1734.7	1695.7	1681.2	1678.3
20°	1692.8	1701.2	1655.2	1634.9	1632.1
22.5°	1651.2	1658.5	1610.2	1585.2	1581.3
25°	1588.8	1590.2	1544.0	1509.1	1500.7
27.5°	1523.5	1519.0	1467.7	1426.5	1415.5
30°	1476.1	1470.5	1411.1	1367.6	1357.7
32.5°	1425.3	1415.1	1355.7	1308.6	1298.8
35°	1350.5	1334.9	1272.5	1223.1	1211.8
37.5°	1270.7	1253.2	1191.9	1138.1	1125.4
40°	1217.6	1197.8	1135.3	1081.5	1068.8
42.5°	1164.4	1142.4	1078.6	1024.9	1011.0
45°	1081.8	1059.2	995.2	942.8	928.7
47.5°	1003.2	974.4	912.2	860.2	846.1
50°	948.9	917.9	857.9	807.1	792.9
52.5°	893.5	861.3	803.6	755.1	740.9
55°	808.8	779.2	722.2	677.1	664.4
57.5°	725.1	696.5	644.5	601.4	589.0
60°	667.3	643.3	593.6	552.9	541.6
62.5°	611.8	590.1	542.8	505.6	494.3
65°	530.1	510.3	468.0	434.6	426.1
67.5°	450.6	430.9	396.6	366.6	357.0
70°	398.6	378.9	348.1	320.5	312.0
72.5°	349.0	328.1	303.0	277.8	271.5
75°	274.4	257.5	238.3	219.4	213.8
77.5°	208.6	192.2	178.2	164.9	163.5
80°	164.7	150.5	140.1	131.4	130.0
82.5°	123.1	112.3	105.4	99.1	98.8
85°	63.6	59.3	57.8	50.5	47.7
87.5°	18.5	18.5	16.2	14.0	14.0
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

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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



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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	19.57	20.47	20.49	21.40	22.60	18.48	19.37	19.39	20.30	21.50
	3H	21.22	22.02	22.15	22.97	24.19	20.01	20.81	20.93	21.75	22.97
	4H	21.85	22.61	22.80	23.56	24.79	20.58	21.34	21.52	22.29	23.52
	6H	22.26	22.96	23.21	23.91	25.16	20.95	21.65	21.91	22.61	23.85
	8H	22.41	23.07	23.37	24.04	25.29	21.10	21.76	22.06	22.73	23.97
	12H	22.48	23.11	23.45	24.08	25.35	21.16	21.79	22.13	22.76	24.02
4H	2H	19.99	20.75	20.94	21.69	22.93	19.11	19.87	20.06	20.82	22.05
	3H	21.86	22.49	22.82	23.47	24.72	20.85	21.48	21.81	22.46	23.71
	4H	22.61	23.18	23.58	24.16	25.43	21.53	22.10	22.50	23.08	24.35
	6H	23.13	23.63	24.11	24.62	25.89	22.00	22.50	22.98	23.50	24.77
	8H	23.34	23.80	24.32	24.79	26.07	22.19	22.66	23.18	23.65	24.93
	12H	23.44	23.86	24.44	24.87	26.16	22.28	22.70	23.29	23.71	25.00
8H	4H	22.77	23.23	23.75	24.22	25.51	21.80	22.27	22.79	23.26	24.54
	6H	23.41	23.79	24.42	24.82	26.11	22.41	22.79	23.42	23.82	25.11
	8H	23.70	24.04	24.72	25.06	26.36	22.68	23.02	23.70	24.04	25.34
	12H	23.88	24.17	24.90	25.19	26.53	22.84	23.13	23.85	24.15	25.49
12H	4H	22.75	23.17	23.75	24.17	25.46	21.81	22.23	22.81	23.23	24.52
	6H	23.44	23.78	24.46	24.80	26.10	22.47	22.81	23.49	23.83	25.13
	8H	23.76	24.06	24.78	25.07	26.42	22.78	23.08	23.80	24.09	25.44