

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: P1438751

Luminaire Tested: CB2-085U-120D-940-1D-UNV-STD-W-4

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438751
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-940-1D-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

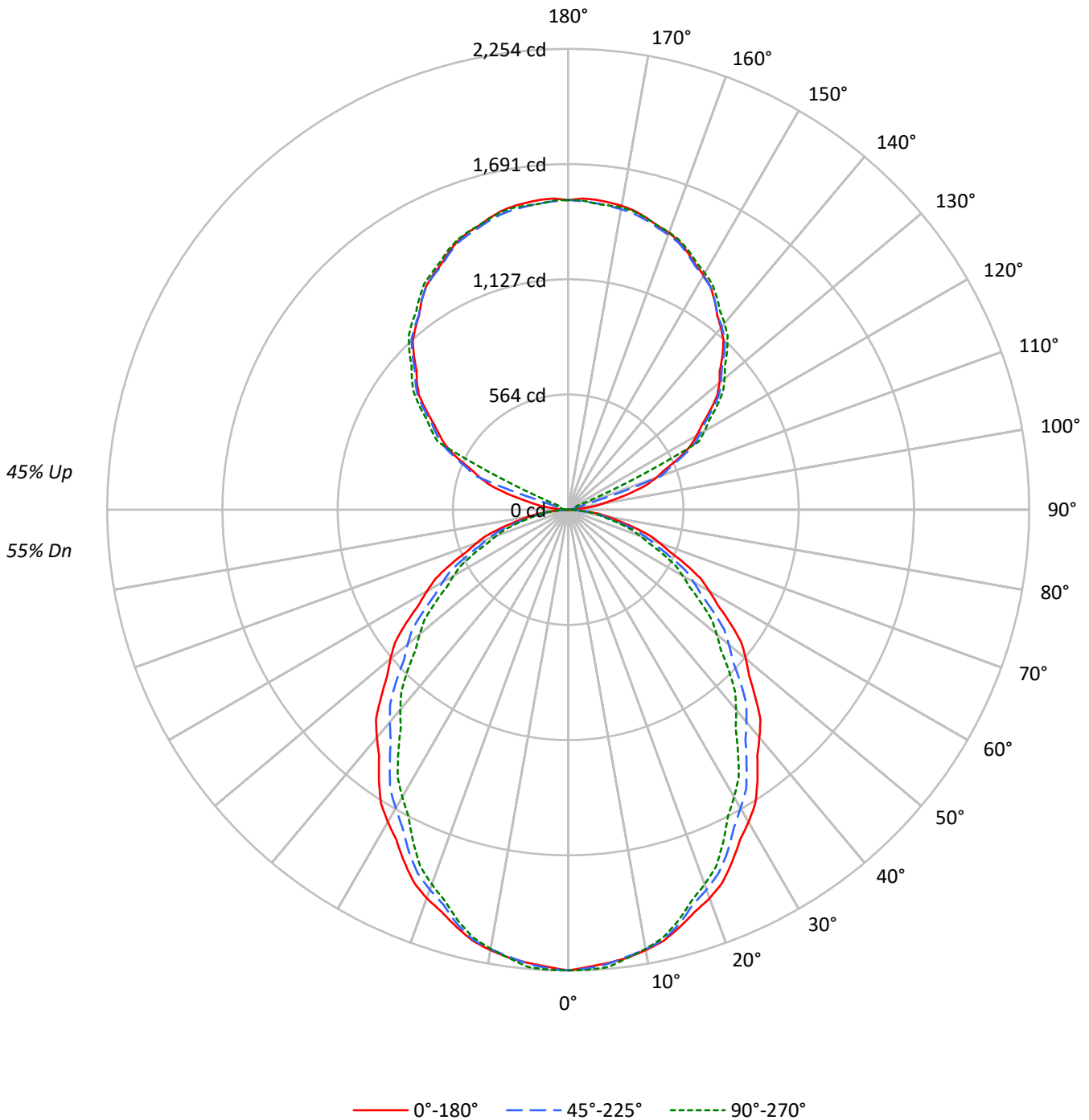
Lumens per Lamp: N/A
Luminaire Lumens: 9573.7 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: General Diffuse

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

TEST NUMBER: P1438751

CATALOG NUMBER: CB2-085U-120D-940-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P1438751

CATALOG NUMBER: CB2-085U-120D-940-1D-UNV-STD-W-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	39253	39253	39253
5°	38919	38980	39251
10°	38699	38607	38577
15°	38087	37836	37526
20°	37485	36655	36142
25°	36479	35451	34456
30°	35469	33907	32623
35°	34305	32326	30784
40°	33075	30838	29035
45°	31837	29285	27331
50°	30719	27774	25671
55°	29343	26200	24105
60°	27770	24705	22542
65°	26100	23042	20982
70°	24256	21180	18980
75°	22066	19159	17187
80°	19729	16791	15577
85°	15168	13789	11371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 31837 cd/sqm



TEST NUMBER: P1438751

CATALOG NUMBER: CB2-085U-120D-940-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.9	2.2
10°-20°	590.8	6.2
20°-30°	849.4	8.9
30°-40°	954.7	10.0
40°-50°	922.3	9.6
50°-60°	779.3	8.1
60°-70°	559.7	5.8
70°-80°	305.9	3.2
80°-90°	81.3	0.8
90°-100°	26.4	0.3
100°-110°	168.0	1.8
110°-120°	533.7	5.6
120°-130°	774.5	8.1
130°-140°	833.0	8.7
140°-150°	784.3	8.2
150°-160°	638.9	6.7
160°-170°	415.8	4.3
170°-180°	143.7	1.5
0°-30°	1652.1	17.3
0°-40°	2606.9	27.2
0°-60°	4308.4	45.0
0°-90°	5255.4	54.9
90°-120°	728.1	7.6
90°-150°	3119.8	32.6
90°-180°	4318.0	45.1
0°-180°	9573.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2254	2254	2254	2254	2254	
5°	2226	2256	2230	2230	2245	211
15°	2112	2131	2098	2078	2081	595
25°	1898	1900	1845	1803	1793	874
35°	1613	1595	1520	1461	1448	1008
45°	1292	1266	1189	1126	1110	999
55°	966	931	863	809	794	864
65°	633	610	559	519	509	628
75°	328	308	285	262	255	351
85°	76	71	69	60	57	90
90°	0	0	0	1	1	5
95°	60	17	19	12	11	76
105°	315	327	33	38	40	332
115°	597	610	615	622	357	587
125°	848	863	863	877	889	758
135°	1067	1079	1078	1084	1098	823
145°	1248	1258	1250	1251	1267	780
155°	1386	1395	1380	1377	1396	639
165°	1478	1483	1467	1461	1476	418
175°	1522	1525	1506	1496	1504	145
180°	1514	1514	1514	1514	1514	

TEST NUMBER: P1438751

CATALOG NUMBER: CB2-085U-120D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2253.7	2253.7	2253.7	2253.7	2253.7
2.5°	2238.5	2265.5	2245.4	2248.2	2252.3
5°	2226.0	2256.4	2229.5	2229.8	2245.0
7.5°	2210.2	2238.8	2205.0	2198.8	2212.9
10°	2188.1	2216.8	2182.9	2171.1	2181.2
12.5°	2159.1	2186.4	2153.9	2135.1	2143.9
15°	2112.2	2130.7	2098.3	2077.7	2081.1
17.5°	2061.1	2072.5	2025.9	2008.5	2005.2
20°	2022.4	2032.5	1977.6	1953.3	1949.9
22.5°	1972.7	1981.5	1923.7	1893.9	1889.2
25°	1898.2	1899.9	1844.7	1803.0	1792.9
27.5°	1820.2	1814.8	1753.6	1704.3	1691.1
30°	1763.6	1756.8	1685.9	1633.9	1622.1
32.5°	1702.8	1690.7	1619.7	1563.5	1551.7
35°	1613.4	1594.9	1520.3	1461.3	1447.8
37.5°	1518.2	1497.3	1424.0	1359.8	1344.6
40°	1454.7	1431.1	1356.3	1292.1	1277.0
42.5°	1391.2	1364.9	1288.7	1224.5	1207.9
45°	1292.5	1265.5	1188.9	1126.4	1109.6
47.5°	1198.6	1164.2	1089.9	1027.7	1010.9
50°	1133.7	1096.6	1025.0	964.2	947.4
52.5°	1067.5	1029.0	960.1	902.1	885.2
55°	966.3	930.9	862.8	809.0	793.8
57.5°	866.3	832.2	770.0	718.6	703.7
60°	797.2	768.6	709.2	660.6	647.1
62.5°	731.0	705.0	648.5	604.0	590.5
65°	633.3	609.7	559.1	519.2	509.1
67.5°	538.4	514.8	473.9	438.0	426.6
70°	476.3	452.6	415.9	382.9	372.7
72.5°	416.9	391.9	362.0	331.8	324.4
75°	327.9	307.6	284.7	262.1	255.4
77.5°	249.2	229.6	212.9	197.0	195.3
80°	196.7	179.8	167.4	157.0	155.3
82.5°	147.0	134.2	126.0	118.4	118.0
85°	75.9	70.9	69.0	60.3	56.9
87.5°	22.1	22.1	19.3	16.8	16.8
90°	0.0	0.0	0.0	1.1	1.1
92.5°	16.6	6.4	4.4	6.4	6.4
95°	60.2	17.4	18.6	12.0	11.0
97.5°	125.1	28.0	26.9	29.6	30.7
100°	174.1	57.4	29.6	34.0	35.0
102.5°	228.4	216.2	30.4	36.6	38.5
105°	315.4	327.2	32.9	38.4	40.5
107.5°	400.8	412.6	152.9	39.7	41.8
110°	457.7	469.5	484.0	40.6	42.7



TEST NUMBER: P1438751

CATALOG NUMBER: CB2-085U-120D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	511.2	525.5	536.6	90.3	44.5
115°	596.8	609.7	615.4	622.5	357.0
117.5°	672.4	688.2	694.7	707.0	719.0
120°	724.9	739.9	744.6	757.0	769.8
122.5°	776.6	789.9	792.8	806.9	818.9
125°	847.6	862.6	862.9	877.4	889.2
127.5°	918.5	931.4	930.8	941.6	954.7
130°	965.8	974.4	974.6	983.7	997.6
132.5°	1005.3	1017.3	1017.5	1024.9	1038.8
135°	1066.6	1079.4	1077.5	1084.4	1098.3
137.5°	1124.2	1136.6	1133.2	1139.0	1153.3
140°	1161.9	1172.6	1167.3	1173.2	1189.2
142.5°	1196.9	1207.6	1199.7	1204.7	1221.6
145°	1248.4	1258.0	1249.5	1250.9	1267.0
147.5°	1294.1	1303.6	1293.3	1294.7	1309.7
150°	1323.9	1332.5	1319.5	1321.0	1336.0
152.5°	1350.2	1357.9	1344.1	1343.8	1361.4
155°	1386.3	1394.9	1379.8	1376.9	1396.2
157.5°	1419.2	1427.1	1412.0	1409.9	1424.9
160°	1441.1	1446.5	1431.2	1428.3	1443.3
162.5°	1456.0	1462.2	1447.0	1442.3	1457.3
165°	1478.3	1482.6	1467.4	1461.2	1476.1
167.5°	1497.6	1502.5	1482.9	1477.4	1493.4
170°	1509.0	1512.2	1492.6	1485.3	1501.3
172.5°	1516.0	1518.4	1498.7	1490.4	1501.3
175°	1522.1	1525.3	1505.7	1496.0	1503.5
177.5°	1523.2	1524.9	1510.1	1501.6	1514.5
180°	1514.5	1514.5	1514.5	1514.5	1514.5



TEST NUMBER: P1438751
 CATALOG NUMBER: CB2-085U-120D-940-1D-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	20.19	21.09	21.11	22.02	23.22	19.09	19.99	20.01	20.92	22.12
	3H	21.84	22.64	22.77	23.59	24.81	20.62	21.43	21.55	22.37	23.59
	4H	22.47	23.23	23.41	24.18	25.41	21.20	21.96	22.14	22.90	24.14
	6H	22.88	23.57	23.83	24.53	25.77	21.57	22.27	22.53	23.22	24.47
	8H	23.02	23.69	23.99	24.66	25.90	21.71	22.38	22.67	23.35	24.59
	12H	23.10	23.73	24.07	24.70	25.97	21.78	22.41	22.74	23.37	24.64
4H	2H	20.61	21.36	21.56	22.31	23.55	19.73	20.49	20.68	21.44	22.67
	3H	22.48	23.11	23.44	24.09	25.34	21.47	22.10	22.43	23.08	24.33
	4H	23.23	23.80	24.19	24.77	26.05	22.15	22.72	23.11	23.69	24.97
	6H	23.75	24.24	24.73	25.24	26.51	22.62	23.12	23.60	24.11	25.39
	8H	23.95	24.42	24.94	25.41	26.69	22.81	23.28	23.80	24.27	25.55
	12H	24.06	24.48	25.06	25.48	26.78	22.90	23.32	23.90	24.33	25.62
8H	4H	23.39	23.85	24.37	24.84	26.12	22.42	22.89	23.40	23.87	25.16
	6H	24.03	24.41	25.04	25.44	26.73	23.03	23.41	24.03	24.44	25.73
	8H	24.32	24.66	25.34	25.68	26.98	23.30	23.64	24.32	24.66	25.96
	12H	24.50	24.79	25.51	25.80	27.15	23.45	23.75	24.47	24.76	26.11
12H	4H	23.37	23.79	24.37	24.79	26.08	22.43	22.84	23.43	23.85	25.14
	6H	24.06	24.40	25.07	25.41	26.72	23.09	23.43	24.11	24.45	25.75
	8H	24.38	24.67	25.40	25.69	27.03	23.40	23.70	24.42	24.71	26.06