

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: P1438741

Luminaire Tested: CB2-085U-120D-835-1D-UNV-STD-W-4

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438741
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-835-1D-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

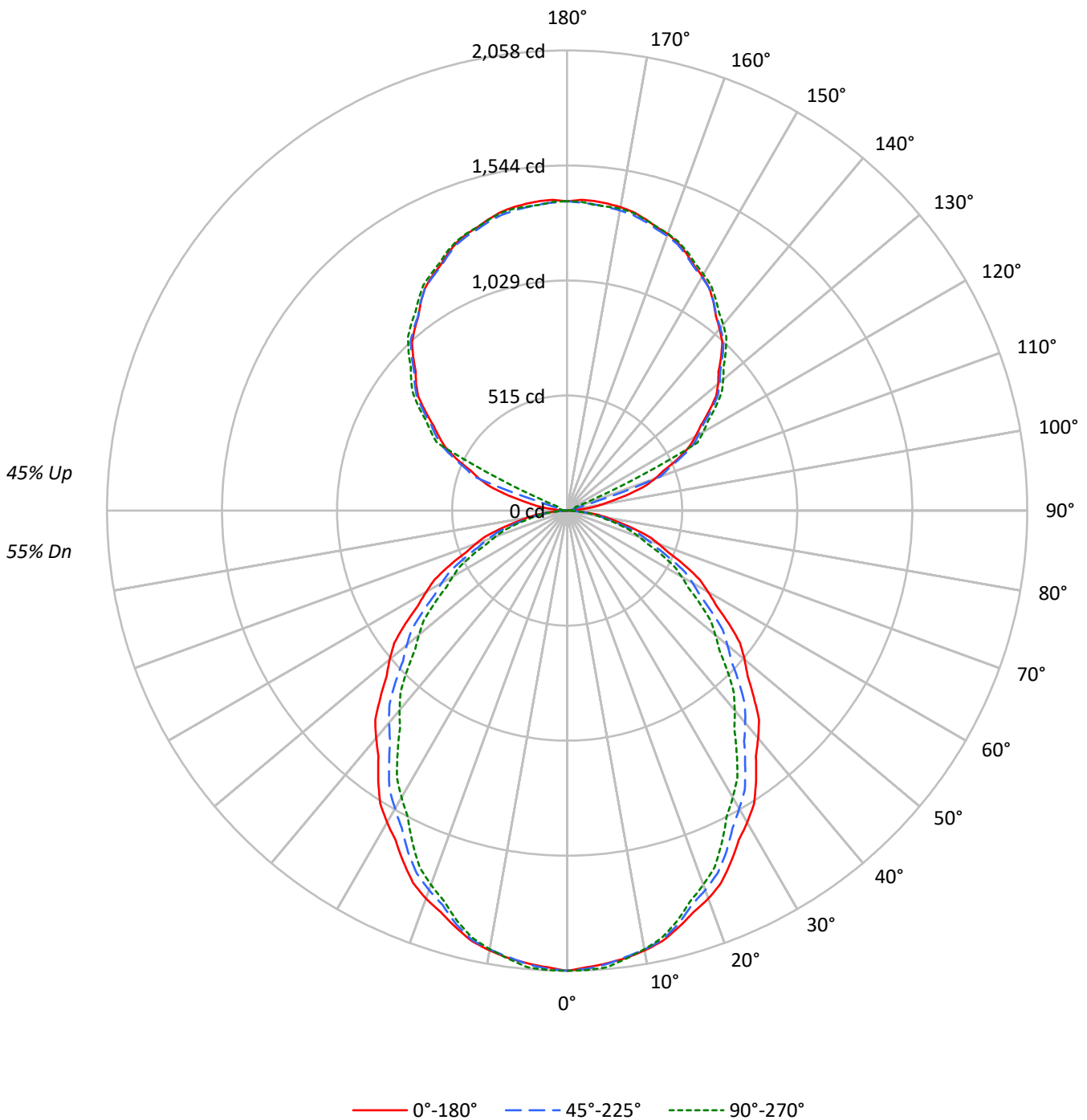
Lumens per Lamp: N/A
Luminaire Lumens: 8742.6 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: General Diffuse

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°	35845	35845	35845
5°	35541	35597	35844
10°	35338	35255	35227
15°	34780	34552	34268
20°	34233	33473	33006
25°	33312	32373	31465
30°	32390	30964	29792
35°	31328	29519	28111
40°	30203	28162	26513
45°	29073	26743	24959
50°	28053	25362	23441
55°	26798	23926	22012
60°	25360	22562	20584
65°	23833	21043	19160
70°	22147	19341	17335
75°	20148	17497	15693
80°	18014	15336	14223
85°	13849	12590	10392

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 29073 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.5	2.2
10°-20°	539.5	6.2
20°-30°	775.7	8.9
30°-40°	871.9	10.0
40°-50°	842.2	9.6
50°-60°	711.6	8.1
60°-70°	511.1	5.8
70°-80°	279.4	3.2
80°-90°	74.3	0.8
90°-100°	24.1	0.3
100°-110°	153.4	1.8
110°-120°	487.4	5.6
120°-130°	707.3	8.1
130°-140°	760.7	8.7
140°-150°	716.2	8.2
150°-160°	583.4	6.7
160°-170°	379.7	4.3
170°-180°	131.3	1.5
0°-30°	1508.7	17.3
0°-40°	2380.6	27.2
0°-60°	3934.4	45.0
0°-90°	4799.1	54.9
90°-120°	664.9	7.6
90°-150°	2849.0	32.6
90°-180°	3943.0	45.1
0°-180°	8742.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2058	2058	2058	2058	2058	
5°	2033	2060	2036	2036	2050	193
15°	1929	1946	1916	1897	1900	544
25°	1733	1735	1684	1646	1637	798
35°	1473	1456	1388	1334	1322	920
45°	1180	1156	1086	1029	1013	912
55°	882	850	788	739	725	789
65°	578	557	511	474	465	573
75°	299	281	260	239	233	320
85°	69	65	63	55	52	83
90°	0	0	0	1	1	5
95°	55	16	17	11	10	70
105°	288	299	30	35	37	303
115°	545	557	562	568	326	536
125°	774	788	788	801	812	692
135°	974	986	984	990	1003	751
145°	1140	1149	1141	1142	1157	713
155°	1266	1274	1260	1257	1275	584
165°	1350	1354	1340	1334	1348	381
175°	1390	1393	1375	1366	1373	132
180°	1383	1383	1383	1383	1383	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2058.0	2058.0	2058.0	2058.0	2058.0
2.5°	2044.1	2068.8	2050.5	2053.1	2056.8
5°	2032.8	2060.5	2036.0	2036.3	2050.1
7.5°	2018.3	2044.5	2013.6	2007.9	2020.8
10°	1998.1	2024.3	1993.4	1982.6	1991.8
12.5°	1971.7	1996.6	1966.9	1949.8	1957.8
15°	1928.8	1945.7	1916.2	1897.4	1900.4
17.5°	1882.2	1892.6	1850.0	1834.2	1831.1
20°	1846.9	1856.1	1805.9	1783.8	1780.7
22.5°	1801.5	1809.5	1756.7	1729.5	1725.2
25°	1733.4	1734.9	1684.5	1646.5	1637.3
27.5°	1662.2	1657.2	1601.3	1556.3	1544.3
30°	1610.5	1604.3	1539.6	1492.1	1481.3
32.5°	1555.0	1543.9	1479.1	1427.8	1417.0
35°	1473.4	1456.4	1388.3	1334.4	1322.1
37.5°	1386.4	1367.3	1300.4	1241.7	1227.9
40°	1328.4	1306.8	1238.6	1180.0	1166.1
42.5°	1270.4	1246.4	1176.8	1118.2	1103.1
45°	1180.3	1155.6	1085.7	1028.7	1013.3
47.5°	1094.6	1063.1	995.3	938.5	923.1
50°	1035.3	1001.4	936.0	880.5	865.1
52.5°	974.8	939.7	876.8	823.8	808.4
55°	882.5	850.1	787.9	738.7	724.9
57.5°	791.1	759.9	703.1	656.2	642.6
60°	728.0	701.8	647.7	603.3	590.9
62.5°	667.5	643.8	592.2	551.6	539.2
65°	578.3	556.8	510.6	474.1	464.9
67.5°	491.7	470.1	432.7	400.0	389.5
70°	434.9	413.4	379.8	349.6	340.4
72.5°	380.7	357.9	330.6	303.0	296.3
75°	299.4	280.9	260.0	239.4	233.2
77.5°	227.5	209.7	194.5	179.9	178.4
80°	179.6	164.2	152.9	143.4	141.8
82.5°	134.3	122.5	115.0	108.1	107.8
85°	69.3	64.7	63.0	55.1	52.0
87.5°	20.2	20.2	17.6	15.3	15.3
90°	0.0	0.0	0.0	1.0	1.0
92.5°	15.2	5.8	4.0	5.8	5.8
95°	55.0	15.9	17.0	11.0	10.0
97.5°	114.2	25.6	24.6	27.0	28.0
100°	159.0	52.4	27.0	31.0	32.0
102.5°	208.6	197.5	27.8	33.4	35.2
105°	288.0	298.8	30.0	35.0	37.0
107.5°	366.0	376.8	139.6	36.2	38.2
110°	418.0	428.8	442.0	37.0	39.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	466.8	479.9	490.0	82.4	40.6
115°	545.0	556.7	562.0	568.5	326.0
117.5°	614.0	628.5	634.4	645.6	656.6
120°	662.0	675.7	680.0	691.3	703.0
122.5°	709.2	721.3	724.0	736.8	747.8
125°	774.0	787.7	788.0	801.2	812.0
127.5°	838.8	850.5	850.0	859.9	871.8
130°	882.0	889.8	890.0	898.3	911.0
132.5°	918.0	929.0	929.2	935.9	948.6
135°	974.0	985.7	984.0	990.3	1003.0
137.5°	1026.6	1037.9	1034.8	1040.1	1053.2
140°	1061.0	1070.8	1066.0	1071.3	1086.0
142.5°	1093.0	1102.8	1095.6	1100.2	1115.6
145°	1140.0	1148.8	1141.0	1142.3	1157.0
147.5°	1181.8	1190.4	1181.0	1182.3	1196.0
150°	1209.0	1216.8	1205.0	1206.3	1220.0
152.5°	1233.0	1240.0	1227.4	1227.2	1243.2
155°	1266.0	1273.8	1260.0	1257.4	1275.0
157.5°	1296.0	1303.2	1289.4	1287.5	1301.2
160°	1316.0	1320.9	1307.0	1304.3	1318.0
162.5°	1329.6	1335.3	1321.4	1317.1	1330.8
165°	1350.0	1353.9	1340.0	1334.3	1348.0
167.5°	1367.6	1372.1	1354.2	1349.1	1363.8
170°	1378.0	1380.9	1363.0	1356.3	1371.0
172.5°	1384.4	1386.6	1368.6	1361.0	1371.0
175°	1390.0	1392.9	1375.0	1366.2	1373.0
177.5°	1391.0	1392.6	1379.0	1371.3	1383.0
180°	1383.0	1383.0	1383.0	1383.0	1383.0

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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	19.88	20.77	20.79	21.71	22.91	18.78	19.67	19.70	20.61	21.81
	3H	21.53	22.33	22.45	23.27	24.49	20.31	21.11	21.24	22.05	23.28
	4H	22.16	22.91	23.10	23.86	25.09	20.88	21.64	21.83	22.59	23.82
	6H	22.56	23.26	23.51	24.21	25.46	21.26	21.95	22.21	22.91	24.15
	8H	22.71	23.37	23.67	24.34	25.59	21.40	22.06	22.36	23.03	24.28
	12H	22.78	23.42	23.75	24.38	25.65	21.46	22.09	22.43	23.06	24.33
4H	2H	20.29	21.05	21.24	22.00	23.23	19.42	20.17	20.37	21.12	22.36
	3H	22.16	22.80	23.12	23.77	25.02	21.16	21.79	22.11	22.76	24.01
	4H	22.91	23.49	23.88	24.46	25.73	21.83	22.41	22.80	23.38	24.65
	6H	23.43	23.93	24.41	24.92	26.20	22.31	22.80	23.29	23.80	25.07
	8H	23.64	24.10	24.62	25.09	26.38	22.50	22.96	23.48	23.95	25.24
	12H	23.75	24.16	24.75	25.17	26.46	22.59	23.01	23.59	24.01	25.30
8H	4H	23.07	23.53	24.05	24.52	25.81	22.11	22.57	23.09	23.56	24.84
	6H	23.71	24.10	24.72	25.13	26.41	22.71	23.10	23.72	24.13	25.41
	8H	24.00	24.34	25.02	25.36	26.66	22.99	23.33	24.00	24.34	25.65
	12H	24.18	24.48	25.20	25.49	26.84	23.14	23.44	24.16	24.45	25.80
12H	4H	23.05	23.47	24.05	24.48	25.77	22.11	22.53	23.11	23.53	24.83
	6H	23.74	24.08	24.76	25.10	26.40	22.77	23.11	23.79	24.13	25.43
	8H	24.06	24.36	25.08	25.37	26.72	23.08	23.38	24.10	24.39	25.74