

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1057028

Luminaire Tested: CB2-D-055U-085D-830-1D-UNV-STD-W-8

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057028
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-13, G2-2312-242-18)
Test Lab: INNOVATION CENTER
Issue Date: 7/31/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: CB2-D-055U-085D-830-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE, DIFFUSER DUST COVER UPLIGHT
2-INCH APERTURE
DOWNLIGHT 850 LUMENS PER FOOT
UPLIGHT 550 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10263.9 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')
CIE Type: Semi-Direct

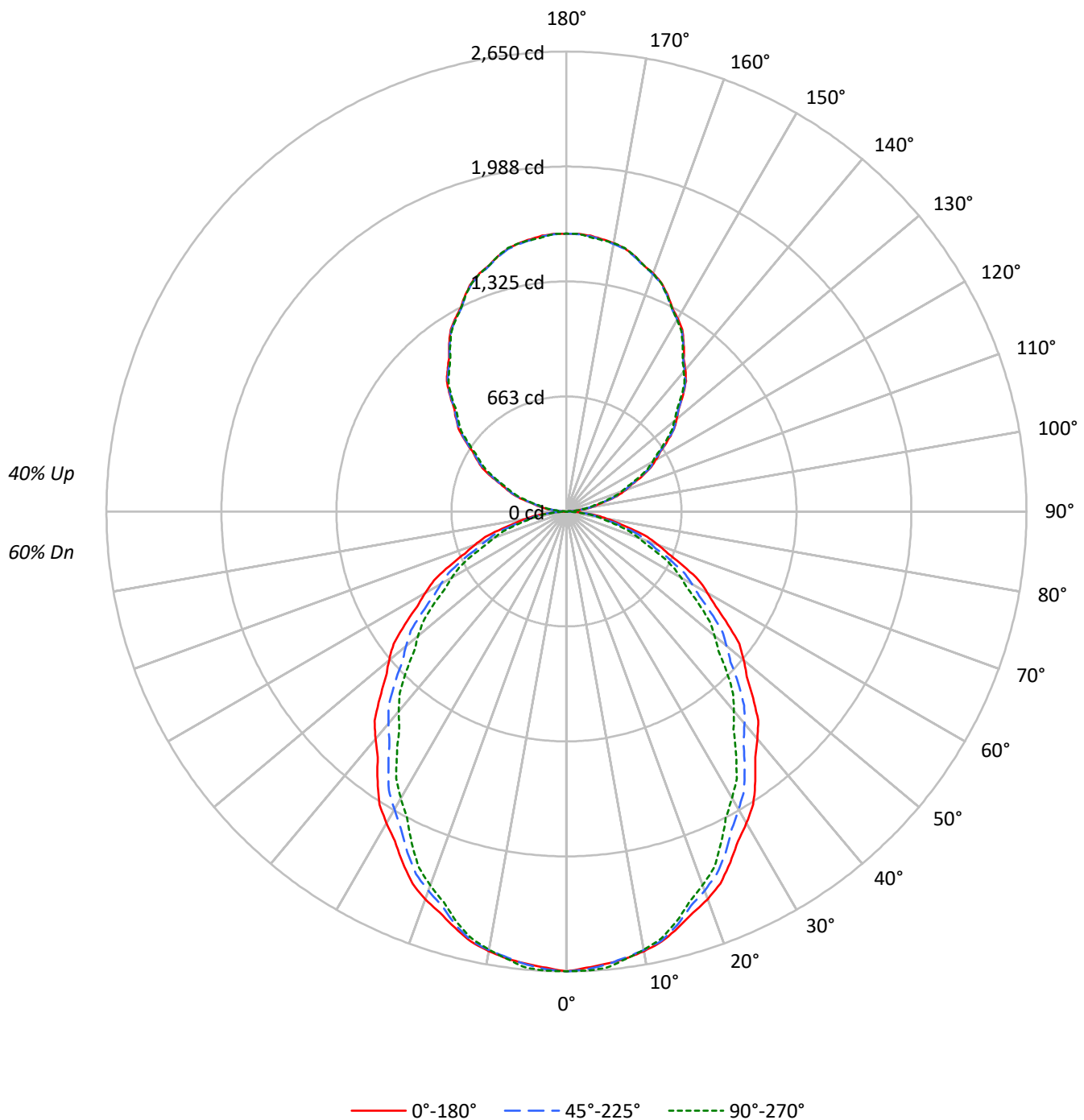
Input Watts (W): 93.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P1057028

CATALOG NUMBER: CB2-D-055U-085D-830-1D-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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	110	110	110	110	102	102	102	102	89	89	89	77	77	77	65	65	65
1	100	96	92	89	94	90	87	83	78	76	74	68	66	64	58	57	56
2	92	84	78	73	85	79	73	69	69	65	61	60	57	54	52	49	47
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	46	43	41
4	77	66	58	52	71	62	55	49	54	49	44	48	43	40	41	38	35
5	71	59	51	45	66	55	48	43	49	43	39	43	38	35	37	34	31
6	65	53	45	39	61	50	43	37	44	38	34	39	34	30	34	30	27
7	60	48	40	34	56	45	38	33	40	34	30	35	31	27	31	27	24
8	56	44	36	30	52	41	34	29	37	31	27	33	28	24	29	25	22
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	23	20
10	49	37	29	25	46	35	28	24	31	26	22	28	23	20	25	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23080	23080	23080
5°	22884	22919	23079
10°	22753	22700	22681
15°	22394	22247	22064
20°	22040	21552	21251
25°	21448	20844	20260
30°	20855	19936	19182
35°	20171	19006	18100
40°	19447	18133	17071
45°	18719	17219	16070
50°	18063	16331	15093
55°	17254	15405	14172
60°	16329	14526	13255
65°	15346	13549	12335
70°	14262	12451	11160
75°	12975	11265	10104
80°	11600	9870	9158
85°	8923	8114	6695

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 18719 cd/sqm

TEST NUMBER: P1057028

CATALOG NUMBER: CB2-D-055U-085D-830-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.2	2.4
10°-20°	694.7	6.8
20°-30°	998.9	9.7
30°-40°	1122.7	10.9
40°-50°	1084.5	10.6
50°-60°	916.4	8.9
60°-70°	658.2	6.4
70°-80°	359.7	3.5
80°-90°	95.6	0.9
90°-100°	61.9	0.6
100°-110°	255.1	2.5
110°-120°	463.2	4.5
120°-130°	630.2	6.1
130°-140°	727.6	7.1
140°-150°	733.2	7.1
150°-160°	632.7	6.2
160°-170°	428.8	4.2
170°-180°	151.3	1.5
0°-30°	1942.8	18.9
0°-40°	3065.5	29.9
0°-60°	5066.4	49.4
0°-90°	6180.0	60.2
90°-120°	780.2	7.6
90°-150°	2871.1	28.0
90°-180°	4084.0	39.8
0°-180°	10263.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2650	2650	2650	2650	2650	
5°	2618	2653	2622	2622	2640	249
15°	2484	2506	2468	2443	2447	700
25°	2232	2234	2169	2120	2108	1028
35°	1897	1876	1788	1718	1702	1185
45°	1520	1488	1398	1325	1305	1174
55°	1136	1095	1015	951	933	1016
65°	745	717	658	610	599	738
75°	386	362	335	308	300	412
85°	89	83	81	71	67	106
90°	0	0	1	0	1	6
95°	60	53	50	39	39	70
105°	252	249	242	228	226	268
115°	480	478	470	456	455	473
125°	713	721	706	691	692	637
135°	951	962	946	928	934	732
145°	1178	1191	1173	1159	1168	736
155°	1378	1391	1372	1363	1374	634
165°	1523	1538	1519	1510	1524	429
175°	1595	1612	1591	1581	1585	151
180°	1601	1601	1601	1601	1601	

TEST NUMBER: P1057028

CATALOG NUMBER: CB2-D-055U-085D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2650.2	2650.2	2650.2	2650.2	2650.2
2.5°	2632.3	2664.0	2640.4	2643.8	2648.5
5°	2617.7	2653.4	2621.7	2622.2	2640.0
7.5°	2599.0	2632.7	2592.9	2585.6	2602.3
10°	2573.0	2606.8	2567.0	2553.0	2564.9
12.5°	2539.0	2571.1	2532.9	2510.8	2521.1
15°	2483.8	2505.6	2467.5	2443.3	2447.2
17.5°	2423.7	2437.2	2382.3	2361.9	2357.9
20°	2378.2	2390.1	2325.5	2297.0	2293.0
22.5°	2319.8	2330.1	2262.2	2227.1	2221.6
25°	2232.1	2234.1	2169.2	2120.3	2108.4
27.5°	2140.4	2134.1	2062.1	2004.1	1988.6
30°	2073.9	2065.9	1982.5	1921.3	1907.5
32.5°	2002.4	1988.1	1904.6	1838.6	1824.7
35°	1897.3	1875.5	1787.7	1718.4	1702.5
37.5°	1785.3	1760.7	1674.5	1599.0	1581.2
40°	1710.6	1682.8	1595.0	1519.5	1501.6
42.5°	1636.0	1605.0	1515.4	1439.9	1420.4
45°	1519.9	1488.1	1398.1	1324.6	1304.8
47.5°	1409.5	1369.0	1281.7	1208.6	1188.7
50°	1333.2	1289.5	1205.4	1133.9	1114.0
52.5°	1255.3	1210.0	1129.1	1060.8	1041.0
55°	1136.4	1094.7	1014.6	951.3	933.4
57.5°	1018.7	978.6	905.4	845.0	827.5
60°	937.5	903.8	834.0	776.8	761.0
62.5°	859.6	829.0	762.6	710.3	694.4
65°	744.7	716.9	657.5	610.5	598.6
67.5°	633.1	605.3	557.2	515.1	501.6
70°	560.1	532.3	489.0	450.2	438.3
72.5°	490.3	460.9	425.7	390.2	381.5
75°	385.6	361.7	334.8	308.3	300.3
77.5°	293.0	270.0	250.4	231.7	229.7
80°	231.3	211.5	196.8	184.6	182.6
82.5°	172.9	157.8	148.1	139.2	138.8
85°	89.3	83.3	81.2	70.9	67.0
87.5°	26.0	26.0	23.0	19.5	19.7
90°	0.0	0.0	1.2	0.0	1.2
92.5°	15.0	13.0	12.2	8.0	9.2
95°	60.0	52.6	50.0	38.7	38.7
97.5°	113.2	105.8	101.9	90.4	87.9
100°	151.1	143.8	139.9	127.4	124.9
102.5°	190.1	186.7	179.9	166.3	163.9
105°	252.3	248.7	242.3	228.5	226.1
107.5°	316.3	317.0	307.5	296.2	292.8
110°	362.2	361.0	353.5	342.2	339.8

TEST NUMBER: P1057028

CATALOG NUMBER: CB2-D-055U-085D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	409.2	407.0	399.5	388.2	385.7
115°	479.7	478.4	469.7	455.9	454.7
117.5°	546.6	550.5	540.1	525.6	525.1
120°	594.6	599.5	587.1	574.5	572.1
122.5°	641.5	647.4	635.0	620.6	621.0
125°	713.2	720.6	705.7	690.8	692.0
127.5°	782.4	791.5	777.7	762.5	763.9
130°	829.4	840.4	825.7	809.5	811.9
132.5°	877.4	888.4	873.6	856.5	860.9
135°	950.6	961.6	945.6	928.2	934.3
137.5°	1019.5	1030.5	1013.0	998.4	1005.8
140°	1065.5	1076.5	1058.0	1044.4	1051.7
142.5°	1110.4	1123.4	1103.9	1089.4	1098.7
145°	1177.9	1191.3	1172.9	1159.4	1167.9
147.5°	1241.8	1255.3	1236.6	1223.6	1232.4
150°	1282.8	1296.3	1276.6	1265.6	1275.3
152.5°	1320.8	1336.2	1315.5	1304.6	1317.3
155°	1377.8	1391.2	1371.5	1363.0	1374.0
157.5°	1427.2	1442.8	1423.2	1415.9	1424.7
160°	1460.2	1474.8	1455.2	1447.9	1457.7
162.5°	1485.2	1500.8	1482.2	1473.9	1485.7
165°	1522.6	1538.5	1518.9	1510.5	1523.9
167.5°	1552.1	1569.0	1549.1	1540.4	1554.1
170°	1570.1	1586.0	1565.1	1555.5	1570.1
172.5°	1582.1	1599.0	1577.1	1567.3	1577.1
175°	1595.1	1612.2	1591.3	1581.4	1585.1
177.5°	1601.3	1615.0	1598.3	1589.6	1601.3
180°	1601.3	1601.3	1601.3	1601.3	1601.3

(END OF REPORT)