

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: P1057031

Luminaire Tested: CB2-D-055U-120D-830-1D-UNV-STD-W-8

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057031
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-120D-830-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE, DIFFUSER DUST COVER UPLIGHT
2-INCH APERTURE
DOWNLIGHT 1200 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: 12881.4 lumens
Efficiency: N/A
Efficacy: 102.0 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

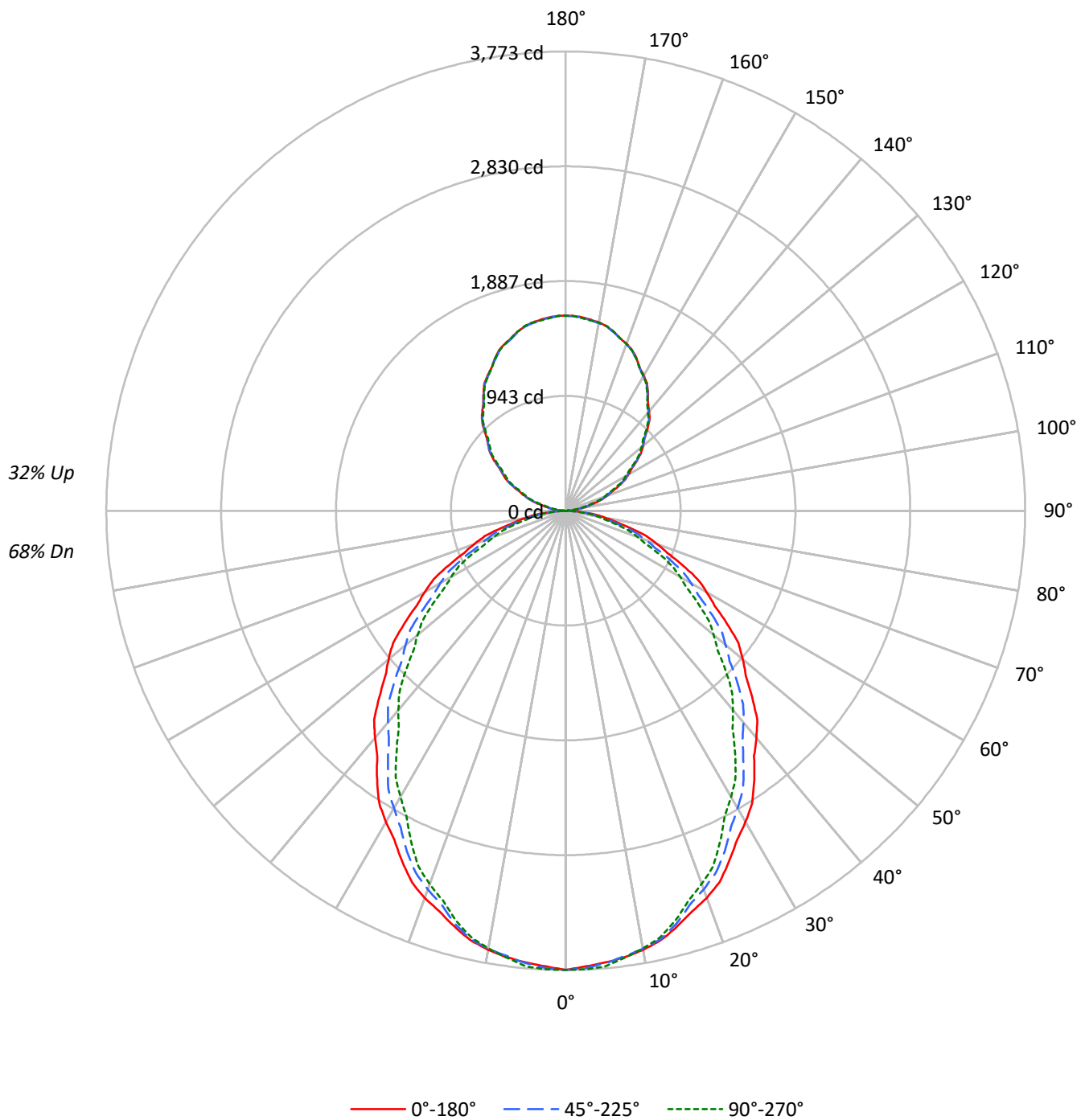
Input Watts (W): 126.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	111	111	111	111	105	105	105	105	93	93	93	83	83	83	73	73	73
1	102	98	94	90	96	92	89	86	82	80	77	73	71	70	65	63	62
2	93	86	79	74	88	81	76	71	73	68	65	65	61	58	57	55	53
3	85	76	68	62	80	72	65	60	64	59	55	57	53	50	51	48	45
4	78	67	59	53	74	64	57	51	57	52	47	51	47	43	46	42	39
5	72	60	52	46	68	57	50	44	52	45	41	46	41	37	41	37	34
6	66	54	46	40	63	52	44	39	47	40	36	42	37	33	38	34	30
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	35	30	27
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	32	28	24
9	54	41	33	28	51	39	32	27	36	30	26	33	27	24	29	25	22
10	50	38	30	26	47	36	29	25	33	27	23	30	25	22	27	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32854	32854	32854
5°	32576	32627	32854
10°	32391	32314	32288
15°	31878	31669	31410
20°	31375	30679	30251
25°	30533	29672	28840
30°	29687	28381	27306
35°	28714	27056	25766
40°	27684	25812	24301
45°	26647	24512	22876
50°	25713	23248	21486
55°	24562	21929	20175
60°	23245	20680	18868
65°	21845	19286	17561
70°	20301	17727	15889
75°	18469	16037	14384
80°	16515	14052	13039
85°	12700	11541	9522

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°	354.8	2.8
10°-20°	988.9	7.7
20°-30°	1421.9	11.0
30°-40°	1598.2	12.4
40°-50°	1543.9	12.0
50°-60°	1304.5	10.1
60°-70°	937.0	7.3
70°-80°	512.1	4.0
80°-90°	136.1	1.1
90°-100°	61.9	0.5
100°-110°	255.1	2.0
110°-120°	463.2	3.6
120°-130°	630.2	4.9
130°-140°	727.6	5.6
140°-150°	733.2	5.7
150°-160°	632.7	4.9
160°-170°	428.8	3.3
170°-180°	151.3	1.2
0°-30°	2765.7	21.5
0°-40°	4363.9	33.9
0°-60°	7212.3	56.0
0°-90°	8797.5	68.3
90°-120°	780.2	6.1
90°-150°	2871.1	22.3
90°-180°	4084.0	31.7
0°-180°	12881.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3773	3773	3773	3773	3773	
5°	3726	3777	3732	3733	3758	354
15°	3536	3567	3513	3478	3484	997
25°	3178	3180	3088	3018	3001	1463
35°	2701	2670	2545	2446	2424	1687
45°	2164	2118	1990	1886	1857	1672
55°	1618	1558	1444	1354	1329	1446
65°	1060	1021	936	869	852	1051
75°	549	515	477	439	428	587
85°	127	119	116	101	95	151
90°	0	0	1	0	1	7
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3772.6	3772.6	3772.6	3772.6	3772.6
2.5°	3747.2	3792.4	3758.8	3763.5	3770.3
5°	3726.4	3777.3	3732.2	3732.8	3758.2
7.5°	3699.8	3747.9	3691.2	3680.7	3704.5
10°	3662.9	3710.9	3654.2	3634.4	3651.3
12.5°	3614.3	3660.1	3605.7	3574.2	3588.9
15°	3535.8	3566.8	3512.6	3478.1	3483.8
17.5°	3450.3	3469.5	3391.3	3362.3	3356.7
20°	3385.5	3402.5	3310.4	3269.9	3264.2
22.5°	3302.4	3317.0	3220.3	3170.4	3162.5
25°	3177.6	3180.4	3088.0	3018.3	3001.4
27.5°	3047.0	3038.0	2935.5	2852.9	2830.9
30°	2952.2	2940.9	2822.3	2735.1	2715.4
32.5°	2850.6	2830.2	2711.3	2617.3	2597.5
35°	2700.9	2669.9	2544.9	2446.2	2423.6
37.5°	2541.5	2506.4	2383.7	2276.3	2250.9
40°	2435.2	2395.6	2270.5	2163.1	2137.6
42.5°	2328.9	2284.8	2157.3	2049.8	2022.1
45°	2163.6	2118.4	1990.3	1885.7	1857.4
47.5°	2006.5	1948.9	1824.5	1720.4	1692.2
50°	1897.9	1835.7	1715.9	1614.1	1585.9
52.5°	1786.9	1722.5	1607.3	1510.1	1481.9
55°	1617.7	1558.4	1444.3	1354.2	1328.8
57.5°	1450.1	1393.1	1288.9	1202.9	1178.0
60°	1334.6	1286.6	1187.3	1105.9	1083.3
62.5°	1223.6	1180.2	1085.6	1011.1	988.5
65°	1060.1	1020.6	935.9	869.1	852.2
67.5°	901.3	861.7	793.2	733.3	714.1
70°	797.3	757.7	696.2	640.9	624.0
72.5°	697.9	656.1	606.0	555.5	543.1
75°	548.9	515.0	476.6	438.8	427.5
77.5°	417.1	384.4	356.5	329.8	327.0
80°	329.3	301.1	280.2	262.8	260.0
82.5°	246.1	224.7	210.9	198.2	197.6
85°	127.1	118.6	115.5	101.0	95.3
87.5°	37.0	37.0	32.6	27.7	28.0
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

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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)