

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: P1057043

Luminaire Tested: CB2-D-085U-120D-830-1D-UNV-STD-W-8

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057043
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-085U-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 850 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14959.9 lumens
Efficiency: N/A
Efficacy: 102.5 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: General Diffuse

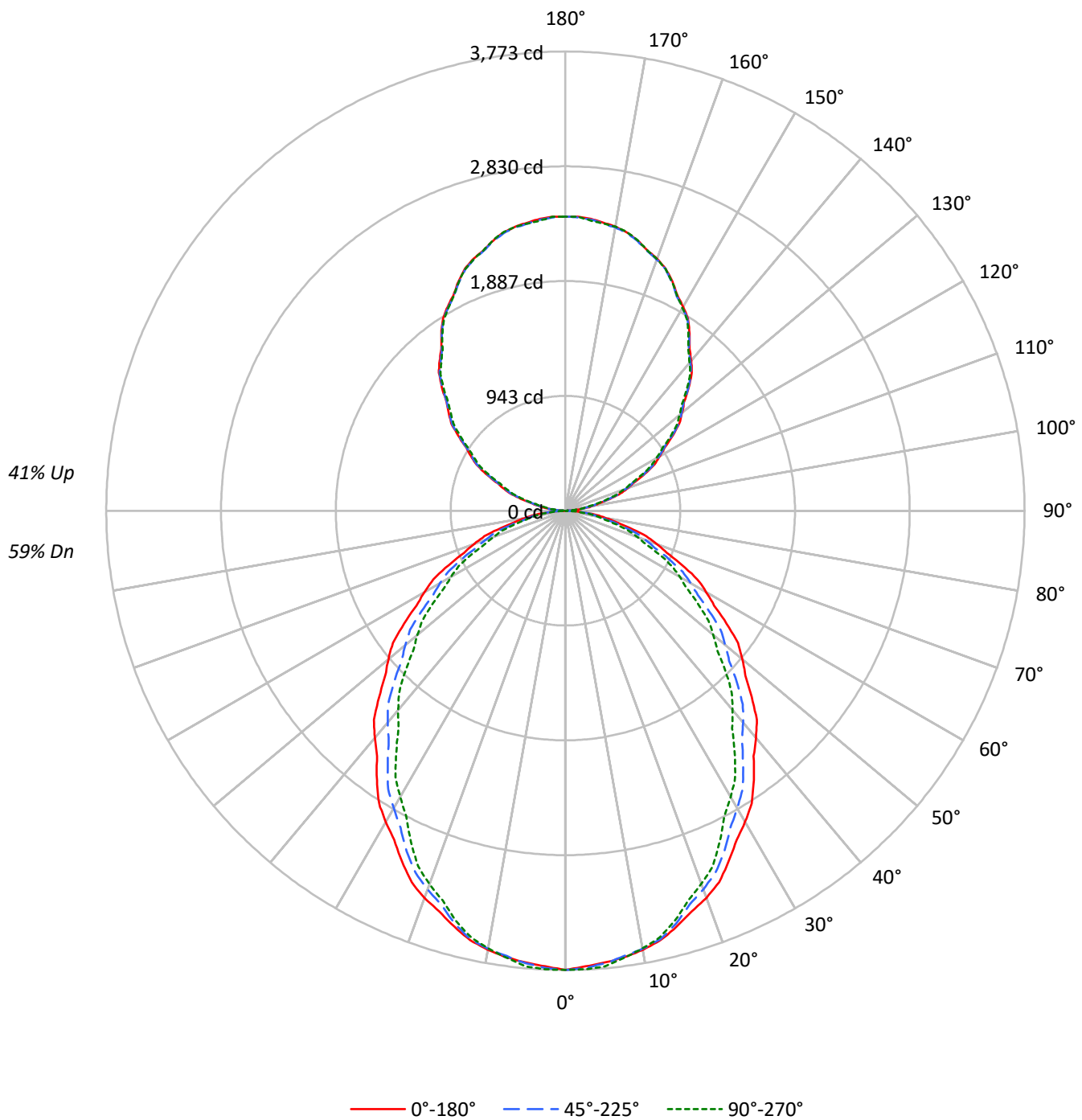
Input Watts (W): 146
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55
2	91	84	78	73	85	78	73	69	68	64	61	59	56	53	51	48	46
3	83	74	67	61	78	69	63	58	61	56	51	52	49	45	45	42	40
4	76	66	58	52	71	62	54	49	54	48	44	47	43	39	40	37	34
5	70	59	50	44	65	55	48	42	48	43	38	42	38	34	36	33	30
6	65	53	45	39	60	50	42	37	44	38	33	38	34	30	33	30	27
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	30	27	24
8	56	43	36	30	52	41	34	29	36	31	26	32	27	24	28	24	21
9	52	40	32	27	49	38	31	26	33	28	24	30	25	22	26	22	19
10	49	37	29	24	46	35	28	23	31	25	22	27	23	20	24	20	18

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	2.4
10°-20°	988.9	6.6
20°-30°	1421.9	9.5
30°-40°	1598.2	10.7
40°-50°	1543.9	10.3
50°-60°	1304.5	8.7
60°-70°	937.0	6.3
70°-80°	512.1	3.4
80°-90°	136.1	0.9
90°-100°	93.4	0.6
100°-110°	385.0	2.6
110°-120°	698.9	4.7
120°-130°	951.0	6.4
130°-140°	1097.8	7.3
140°-150°	1106.3	7.4
150°-160°	954.7	6.4
160°-170°	647.1	4.3
170°-180°	228.2	1.5
0°-30°	2765.7	18.5
0°-40°	4363.9	29.2
0°-60°	7212.3	48.2
0°-90°	8797.5	58.8
90°-120°	1177.2	7.9
90°-150°	4332.3	29.0
90°-180°	6162.0	41.2
0°-180°	14959.9	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	2	0	2	8
95°	90	79	75	58	58	105
105°	381	375	366	345	341	404
115°	724	722	709	688	686	714
125°	1076	1087	1065	1042	1044	961
135°	1434	1451	1427	1401	1410	1105
145°	1777	1798	1770	1749	1762	1110
155°	2079	2099	2070	2057	2073	956
165°	2298	2322	2292	2279	2300	647
175°	2407	2433	2401	2386	2392	228
180°	2416	2416	2416	2416	2416	

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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	32.7	27.7	28.1
90°	0.0	0.0	1.9	0.0	1.9
92.5°	22.6	19.7	18.5	12.1	13.9
95°	90.5	79.4	75.4	58.4	58.4
97.5°	170.8	159.7	153.8	136.4	132.7
100°	228.1	217.0	211.1	192.2	188.5
102.5°	286.9	281.7	271.4	251.0	247.3
105°	380.7	375.2	365.7	344.8	341.1
107.5°	477.2	478.3	464.0	447.0	441.8
110°	546.6	544.7	533.4	516.4	512.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	617.5	614.1	602.8	585.7	582.0
115°	723.8	721.9	708.7	687.9	686.1
117.5°	824.8	830.7	815.0	793.1	792.4
120°	897.2	904.5	885.9	866.9	863.2
122.5°	968.0	976.9	958.2	936.4	937.1
125°	1076.2	1087.3	1064.9	1042.3	1044.2
127.5°	1180.6	1194.3	1173.5	1150.5	1152.7
130°	1251.5	1268.1	1245.9	1221.4	1225.1
132.5°	1323.9	1340.5	1318.2	1292.4	1299.0
135°	1434.3	1450.9	1426.8	1400.6	1409.8
137.5°	1538.4	1555.0	1528.6	1506.6	1517.6
140°	1607.7	1624.3	1596.4	1575.9	1587.0
142.5°	1675.6	1695.1	1665.8	1643.9	1657.9
145°	1777.4	1797.6	1769.8	1749.4	1762.3
147.5°	1873.9	1894.1	1866.0	1846.3	1859.5
150°	1935.7	1956.0	1926.3	1909.6	1924.4
152.5°	1993.0	2016.2	1985.1	1968.5	1987.7
155°	2078.9	2099.2	2069.5	2056.7	2073.3
157.5°	2153.6	2177.2	2147.5	2136.5	2149.8
160°	2203.3	2225.4	2195.8	2184.8	2199.6
162.5°	2241.0	2264.6	2236.5	2224.1	2241.8
165°	2297.6	2321.5	2291.9	2279.2	2299.5
167.5°	2342.1	2367.5	2337.5	2324.4	2345.1
170°	2369.2	2393.1	2361.7	2347.1	2369.2
172.5°	2387.3	2412.7	2379.7	2365.0	2379.7
175°	2406.9	2432.7	2401.2	2386.3	2391.8
177.5°	2416.3	2437.0	2411.8	2398.6	2416.3
180°	2416.3	2416.3	2416.3	2416.3	2416.3

(END OF REPORT)