

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: P1057030

Luminaire Tested: CB2-D-055U-085D-840-1D-UNV-STD-W-8

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057030
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-840-1D-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11048.9 lumens
Efficiency: N/A
Efficacy: 117.8 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

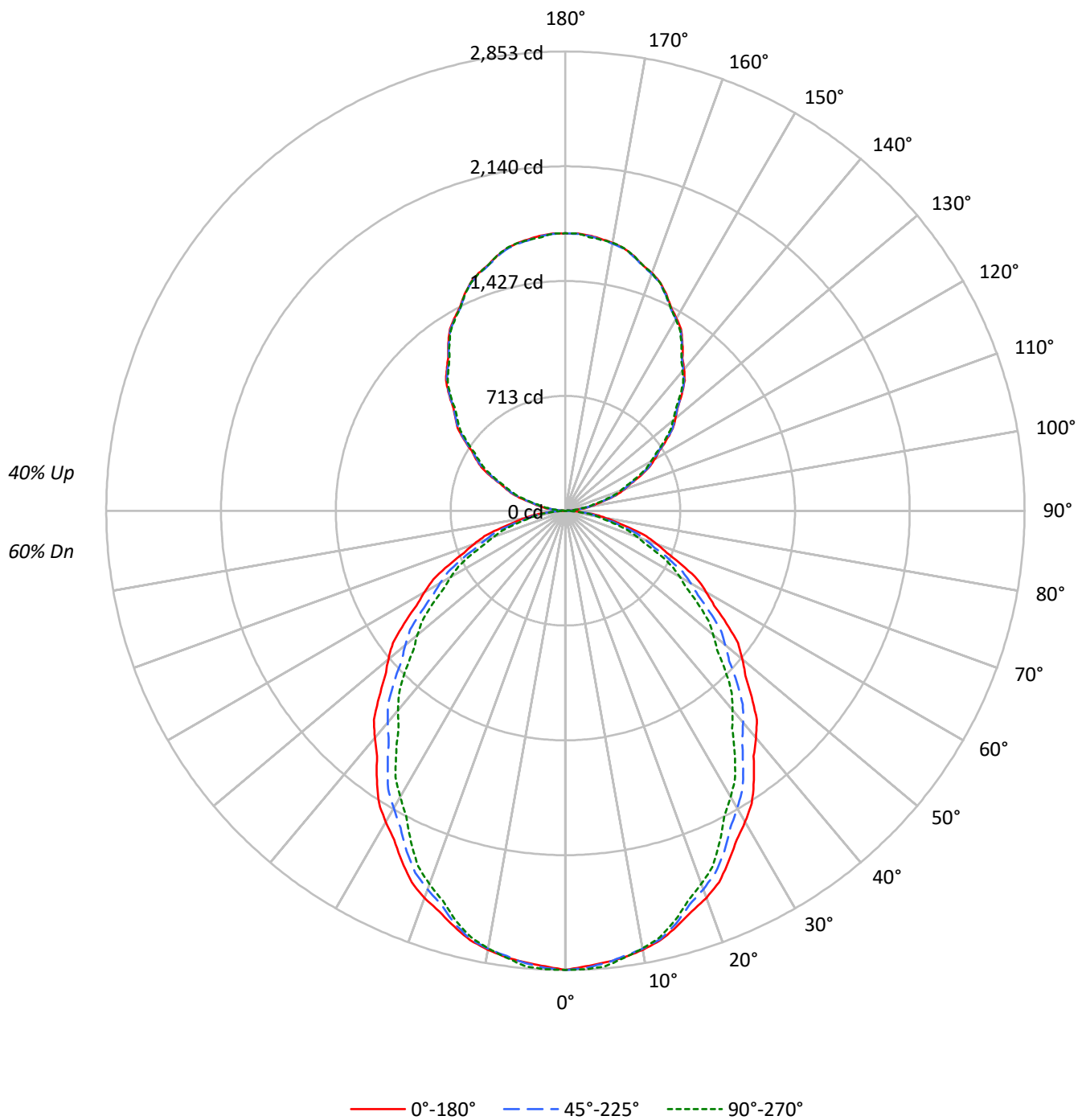
Input Watts (W): 93.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	24844	24844	24844
5°	24634	24672	24844
10°	24493	24436	24416
15°	24106	23948	23751
20°	23726	23200	22876
25°	23089	22438	21808
30°	22450	21461	20648
35°	21713	20460	19484
40°	20935	19518	18377
45°	20150	18537	17299
50°	19444	17579	16247
55°	18573	16583	15256
60°	17578	15637	14268
65°	16520	14583	13279
70°	15351	13403	12013
75°	13964	12127	10878
80°	12488	10627	9860
85°	9602	8733	7204

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20150 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.3	2.4
10°-20°	747.8	6.8
20°-30°	1075.3	9.7
30°-40°	1208.6	10.9
40°-50°	1167.5	10.6
50°-60°	986.4	8.9
60°-70°	708.5	6.4
70°-80°	387.3	3.5
80°-90°	103.0	0.9
90°-100°	66.6	0.6
100°-110°	274.6	2.5
110°-120°	498.6	4.5
120°-130°	678.4	6.1
130°-140°	783.2	7.1
140°-150°	789.2	7.1
150°-160°	681.1	6.2
160°-170°	461.6	4.2
170°-180°	162.8	1.5
0°-30°	2091.4	18.9
0°-40°	3300.0	29.9
0°-60°	5453.9	49.4
0°-90°	6652.6	60.2
90°-120°	839.8	7.6
90°-150°	3090.7	28.0
90°-180°	4396.0	39.8
0°-180°	11048.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2853	2853	2853	2853	2853	
5°	2818	2856	2822	2823	2842	268
15°	2674	2697	2656	2630	2634	754
25°	2403	2405	2335	2282	2270	1106
35°	2042	2019	1924	1850	1833	1276
45°	1636	1602	1505	1426	1405	1264
55°	1223	1178	1092	1024	1005	1094
65°	802	772	708	657	644	795
75°	415	389	360	332	323	444
85°	96	90	87	76	72	114
90°	0	0	1	0	1	6
95°	64	57	54	42	42	75
105°	272	268	261	246	243	288
115°	516	515	506	491	489	510
125°	768	776	760	744	745	686
135°	1023	1035	1018	999	1006	788
145°	1268	1282	1263	1248	1257	792
155°	1483	1498	1476	1467	1479	682
165°	1639	1656	1635	1626	1640	462
175°	1717	1736	1713	1702	1706	163
180°	1724	1724	1724	1724	1724	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2852.8	2852.8	2852.8	2852.8	2852.8
2.5°	2833.6	2867.8	2842.4	2846.0	2851.1
5°	2817.9	2856.3	2822.3	2822.7	2841.9
7.5°	2797.8	2834.1	2791.2	2783.3	2801.3
10°	2769.8	2806.1	2763.3	2748.3	2761.1
12.5°	2733.1	2767.7	2726.6	2702.8	2713.9
15°	2673.7	2697.2	2656.2	2630.1	2634.4
17.5°	2609.1	2623.6	2564.5	2542.6	2538.3
20°	2560.1	2572.9	2503.3	2472.7	2468.4
22.5°	2497.2	2508.3	2435.2	2397.5	2391.5
25°	2402.9	2405.0	2335.1	2282.4	2269.6
27.5°	2304.1	2297.3	2219.8	2157.4	2140.7
30°	2232.5	2223.9	2134.2	2068.3	2053.3
32.5°	2155.6	2140.2	2050.3	1979.2	1964.2
35°	2042.4	2018.9	1924.5	1849.8	1832.7
37.5°	1921.8	1895.4	1802.6	1721.3	1702.1
40°	1841.5	1811.6	1716.9	1635.7	1616.5
42.5°	1761.1	1727.8	1631.3	1550.0	1529.1
45°	1636.1	1601.9	1505.1	1425.9	1404.6
47.5°	1517.3	1473.7	1379.7	1301.0	1279.6
50°	1435.2	1388.2	1297.5	1220.6	1199.2
52.5°	1351.3	1302.6	1215.4	1142.0	1120.6
55°	1223.3	1178.4	1092.2	1024.1	1004.8
57.5°	1096.6	1053.4	974.7	909.6	890.8
60°	1009.2	972.9	897.8	836.2	819.2
62.5°	925.3	892.4	820.9	764.6	747.5
65°	801.7	771.8	707.7	657.2	644.4
67.5°	681.5	651.6	599.8	554.5	540.0
70°	602.9	573.0	526.4	484.6	471.8
72.5°	527.8	496.1	458.3	420.1	410.7
75°	415.0	389.4	360.4	331.8	323.3
77.5°	315.4	290.7	269.6	249.4	247.3
80°	249.0	227.7	211.9	198.7	196.6
82.5°	186.1	169.9	159.5	149.8	149.4
85°	96.1	89.7	87.4	76.4	72.1
87.5°	28.0	28.0	24.7	21.0	21.2
90°	0.0	0.0	1.3	0.0	1.3
92.5°	16.1	14.0	13.2	8.6	10.0
95°	64.5	56.7	53.8	41.7	41.7
97.5°	121.8	113.9	109.7	97.3	94.7
100°	162.7	154.8	150.6	137.1	134.5
102.5°	204.7	201.0	193.6	179.0	176.4
105°	271.6	267.7	260.9	246.0	243.4
107.5°	340.5	341.2	331.0	318.9	315.2
110°	389.9	388.6	380.5	368.4	365.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	440.5	438.1	430.0	417.8	415.2
115°	516.3	515.0	505.6	490.8	489.4
117.5°	588.4	592.6	581.4	565.8	565.3
120°	640.0	645.3	632.0	618.5	615.8
122.5°	690.6	696.9	683.6	668.0	668.5
125°	767.8	775.7	759.7	743.6	744.9
127.5°	842.3	852.0	837.2	820.8	822.4
130°	892.8	904.7	888.8	871.4	874.0
132.5°	944.5	956.3	940.4	922.0	926.7
135°	1023.3	1035.1	1017.9	999.2	1005.8
137.5°	1097.5	1109.3	1090.5	1074.8	1082.7
140°	1147.0	1158.8	1138.9	1124.3	1132.2
142.5°	1195.4	1209.3	1188.4	1172.7	1182.7
145°	1268.0	1282.4	1262.6	1248.0	1257.2
147.5°	1336.8	1351.3	1331.2	1317.1	1326.6
150°	1380.9	1395.4	1374.2	1362.3	1372.9
152.5°	1421.8	1438.4	1416.2	1404.4	1418.0
155°	1483.1	1497.6	1476.4	1467.3	1479.1
157.5°	1536.4	1553.2	1532.1	1524.2	1533.7
160°	1571.9	1587.6	1566.5	1558.7	1569.2
162.5°	1598.8	1615.6	1595.5	1586.7	1599.3
165°	1639.1	1656.2	1635.1	1626.0	1640.4
167.5°	1670.8	1689.0	1667.6	1658.3	1673.0
170°	1690.2	1707.3	1684.8	1674.4	1690.2
172.5°	1703.1	1721.2	1697.7	1687.2	1697.7
175°	1717.1	1735.5	1713.1	1702.4	1706.3
177.5°	1723.8	1738.5	1720.6	1711.2	1723.8
180°	1723.8	1723.8	1723.8	1723.8	1723.8

(END OF REPORT)