

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: P1057103

Luminaire Tested: CB3-B-085U-120D-830-1D-UNV-STD-W-8

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057103
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-119-2, G2-2312-242-8)
Test Lab: INNOVATION CENTER
Issue Date: 7/31/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: CB3-B-085U-120D-830-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT
3-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: 16575.3 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.24' x L: 8' x H: 0')
CIE Type: General Diffuse

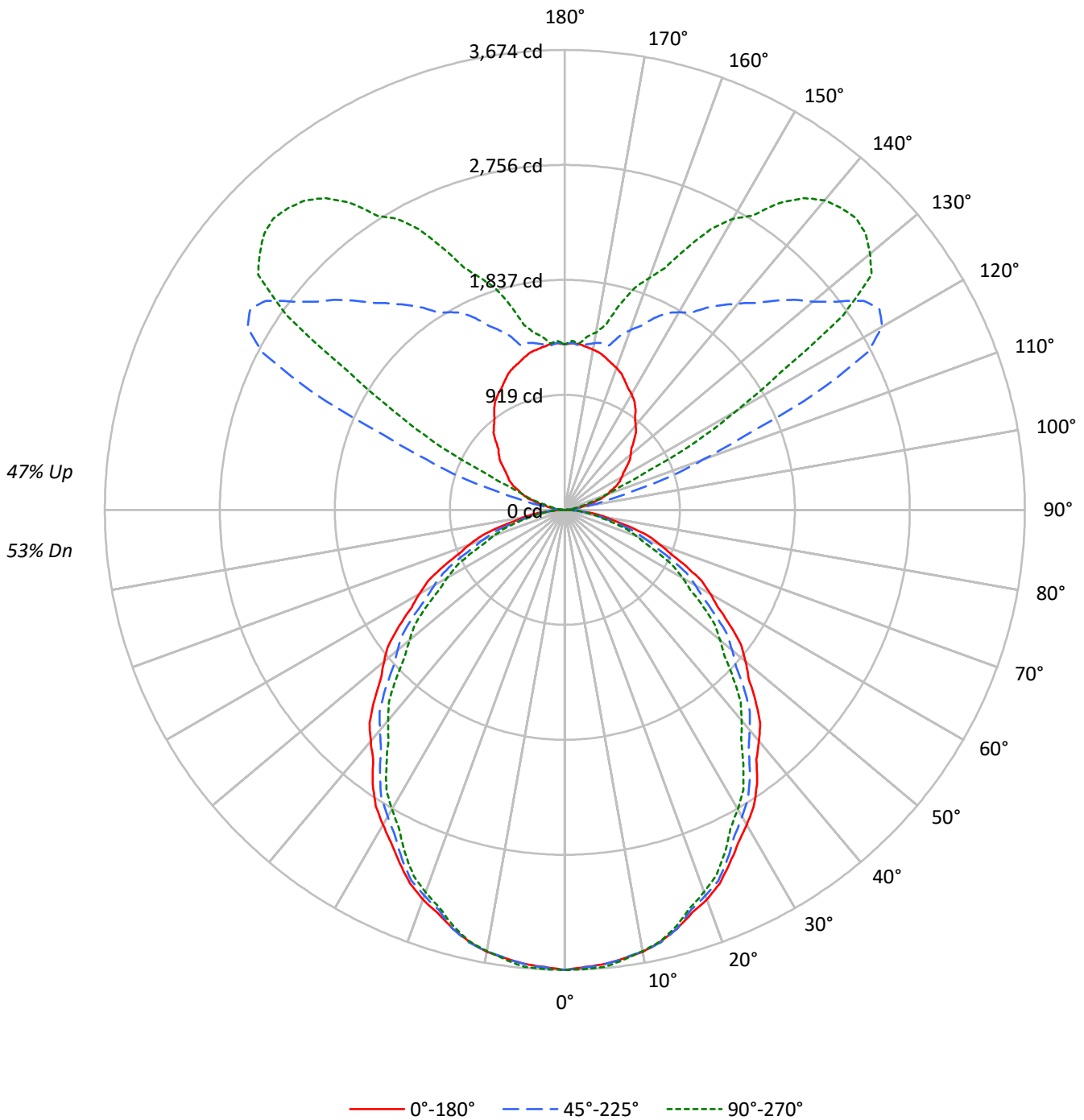
Input Watts (W): 133.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53				
1	99	94	91	87	91	88	84	81	75	72	70	63	61	60	52	51	50	45				
2	90	83	77	71	83	77	72	67	66	62	58	56	53	50	46	44	43	38				
3	82	73	66	60	76	68	61	56	58	53	49	49	46	43	41	39	36	32				
4	75	65	57	51	70	60	53	48	52	46	42	44	40	37	37	34	32	28				
5	69	58	50	44	64	54	47	41	47	41	37	40	35	32	33	30	28	24				
6	64	52	44	38	59	48	41	36	42	36	32	36	32	28	30	27	24	22				
7	59	47	39	33	55	44	37	32	38	32	28	33	28	25	28	24	22	19				
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	26	22	20	17				
9	51	39	31	26	47	37	30	25	32	26	23	28	23	20	24	20	18	16				
10	48	36	29	24	44	34	27	23	29	24	20	26	21	18	22	19	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20787	20787	20787
5°	20688	20703	20821
10°	20597	20567	20567
15°	20282	20282	20159
20°	19952	19748	19575
25°	19449	19205	18863
30°	18973	18479	18036
35°	18473	17788	17157
40°	17807	16959	16227
45°	17204	16222	15220
50°	16582	15342	14239
55°	15906	14491	13306
60°	15176	13611	12254
65°	14322	12611	11144
70°	13339	11438	9928
75°	12092	10039	8842
80°	10543	8415	7822
85°	8133	7114	7114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17204 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.7	2.1
10°-20°	974.0	5.9
20°-30°	1415.0	8.5
30°-40°	1608.8	9.7
40°-50°	1561.8	9.4
50°-60°	1318.6	8.0
60°-70°	938.2	5.7
70°-80°	501.2	3.0
80°-90°	132.4	0.8
90°-100°	89.4	0.5
100°-110°	468.7	2.8
110°-120°	1179.7	7.1
120°-130°	1820.0	11.0
130°-140°	1666.1	10.1
140°-150°	1229.7	7.4
150°-160°	783.8	4.7
160°-170°	412.7	2.5
170°-180°	128.5	0.8
0°-30°	2735.7	16.5
0°-40°	4344.5	26.2
0°-60°	7224.8	43.6
0°-90°	8796.7	53.1
90°-120°	1737.8	10.5
90°-150°	6453.6	38.9
90°-180°	7779.0	46.9
0°-180°	16575.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3674	3674	3674	3674	3674	
5°	3643	3689	3646	3641	3666	346
15°	3463	3494	3463	3442	3442	975
25°	3116	3126	3077	3035	3022	1436
35°	2675	2649	2576	2500	2484	1667
45°	2150	2117	2028	1930	1902	1659
55°	1613	1569	1469	1375	1349	1442
65°	1070	1032	942	858	832	1060
75°	553	523	459	412	404	590
85°	125	115	110	110	110	148
90°	0	0	0	0	0	7
95°	47	132	52	29	29	59
105°	239	740	536	220	181	255
115°	454	927	2226	968	734	443
125°	606	936	2913	2937	2715	542
135°	781	1043	2360	3218	3292	603
145°	985	1138	1969	2738	2995	612
155°	1136	1222	1690	2091	2307	524
165°	1258	1293	1358	1587	1695	355
175°	1328	1357	1317	1323	1334	126
180°	1322	1322	1322	1322	1322	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3674.3	3674.3	3674.3	3674.3	3674.3
2.5°	3655.5	3692.2	3659.7	3664.0	3672.2
5°	3643.0	3688.9	3645.6	3640.9	3666.4
7.5°	3614.8	3656.6	3611.6	3601.2	3624.2
10°	3585.5	3631.5	3580.3	3567.6	3580.3
12.5°	3533.4	3581.3	3540.7	3519.5	3530.2
15°	3462.9	3493.5	3462.9	3442.0	3442.0
17.5°	3376.8	3408.9	3351.2	3336.5	3330.9
20°	3314.1	3342.2	3280.2	3259.2	3251.5
22.5°	3230.6	3256.7	3205.1	3169.4	3159.7
25°	3115.8	3126.0	3076.7	3034.6	3021.9
27.5°	3000.5	3003.0	2935.2	2884.2	2867.4
30°	2904.4	2907.0	2828.8	2773.7	2760.9
32.5°	2808.4	2800.8	2726.5	2661.0	2652.4
35°	2674.8	2649.3	2575.6	2499.6	2484.3
37.5°	2513.5	2498.2	2411.2	2335.0	2312.1
40°	2411.2	2385.7	2296.4	2220.2	2197.3
42.5°	2308.9	2279.3	2187.9	2103.3	2078.3
45°	2150.3	2117.1	2027.6	1930.4	1902.4
47.5°	1990.6	1954.3	1855.9	1761.8	1730.7
50°	1884.1	1845.8	1743.2	1651.1	1617.9
52.5°	1775.5	1735.2	1632.5	1538.5	1511.5
55°	1612.7	1569.3	1469.2	1374.7	1349.1
57.5°	1449.9	1407.0	1307.4	1218.0	1187.4
60°	1341.3	1300.5	1203.0	1113.6	1083.0
62.5°	1230.7	1191.9	1096.5	1009.3	980.7
65°	1069.9	1031.6	942.1	858.0	832.5
67.5°	910.7	878.1	789.7	712.5	692.1
70°	806.4	775.7	691.5	620.6	600.2
72.5°	706.1	673.5	593.4	533.1	518.8
75°	553.2	522.6	459.3	412.1	404.5
77.5°	413.4	388.3	333.5	306.8	302.7
80°	323.6	300.6	258.3	240.1	240.1
82.5°	240.1	221.2	193.6	185.8	185.8
85°	125.3	115.1	109.6	109.6	109.6
87.5°	37.6	37.6	35.5	33.4	33.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.0	32.2	9.3	4.8	9.3
95°	46.6	132.1	52.4	29.1	29.1
97.5°	96.7	295.0	135.2	72.1	65.3
100°	134.0	418.8	209.7	104.6	93.2
102.5°	175.9	542.8	316.9	141.7	121.2
105°	238.9	740.2	536.0	220.5	180.6
107.5°	308.8	875.0	883.2	339.9	273.8
110°	355.4	930.7	1176.9	446.3	343.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	397.3	945.3	1568.4	608.6	469.6
115°	454.4	927.2	2225.5	967.6	734.1
117.5°	496.4	882.6	2724.2	1539.4	1187.3
120°	524.3	883.2	2924.7	1971.9	1578.8
122.5°	557.0	888.5	2980.6	2401.4	2040.3
125°	605.9	936.3	2913.0	2937.1	2714.9
127.5°	654.8	971.6	2731.2	3157.3	3087.8
130°	687.5	995.1	2586.7	3232.3	3181.0
132.5°	720.1	1018.6	2484.2	3234.0	3260.2
135°	780.7	1042.7	2359.5	3217.6	3291.7
137.5°	842.4	1072.6	2243.0	3115.7	3269.6
140°	879.7	1096.2	2149.8	3005.4	3227.6
142.5°	921.7	1115.4	2061.2	2903.2	3139.1
145°	984.6	1138.4	1969.2	2738.2	2994.6
147.5°	1033.5	1150.9	1865.5	2571.8	2783.7
150°	1066.2	1151.6	1823.5	2423.7	2685.8
152.5°	1094.1	1175.0	1772.3	2288.1	2527.3
155°	1136.1	1221.5	1689.5	2090.6	2307.1
157.5°	1178.0	1260.0	1591.7	1943.4	2090.4
160°	1206.0	1274.3	1526.4	1872.3	1969.2
162.5°	1229.3	1288.5	1456.5	1751.5	1862.0
165°	1258.4	1292.6	1357.5	1587.1	1695.4
167.5°	1285.2	1302.3	1365.6	1425.9	1513.6
170°	1299.2	1316.3	1351.6	1410.5	1439.0
172.5°	1313.2	1339.4	1333.0	1373.2	1397.1
175°	1328.3	1356.8	1316.7	1322.8	1334.2
177.5°	1331.8	1345.5	1336.5	1336.8	1350.5
180°	1322.5	1322.5	1322.5	1322.5	1322.5

(END OF REPORT)