

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1438646

Luminaire Tested: CB2-055U-030D-840-1D-UNV-STD-W-8

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438646  
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2506-466-1, G2-2312-242-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/31/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB2-055U-030D-840-1D-UNV-STD-W-8  
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT  
2-INCH APERTURE  
DOWNLIGHT 300 LUMENS PER FOOT  
UPLIGHT 550 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

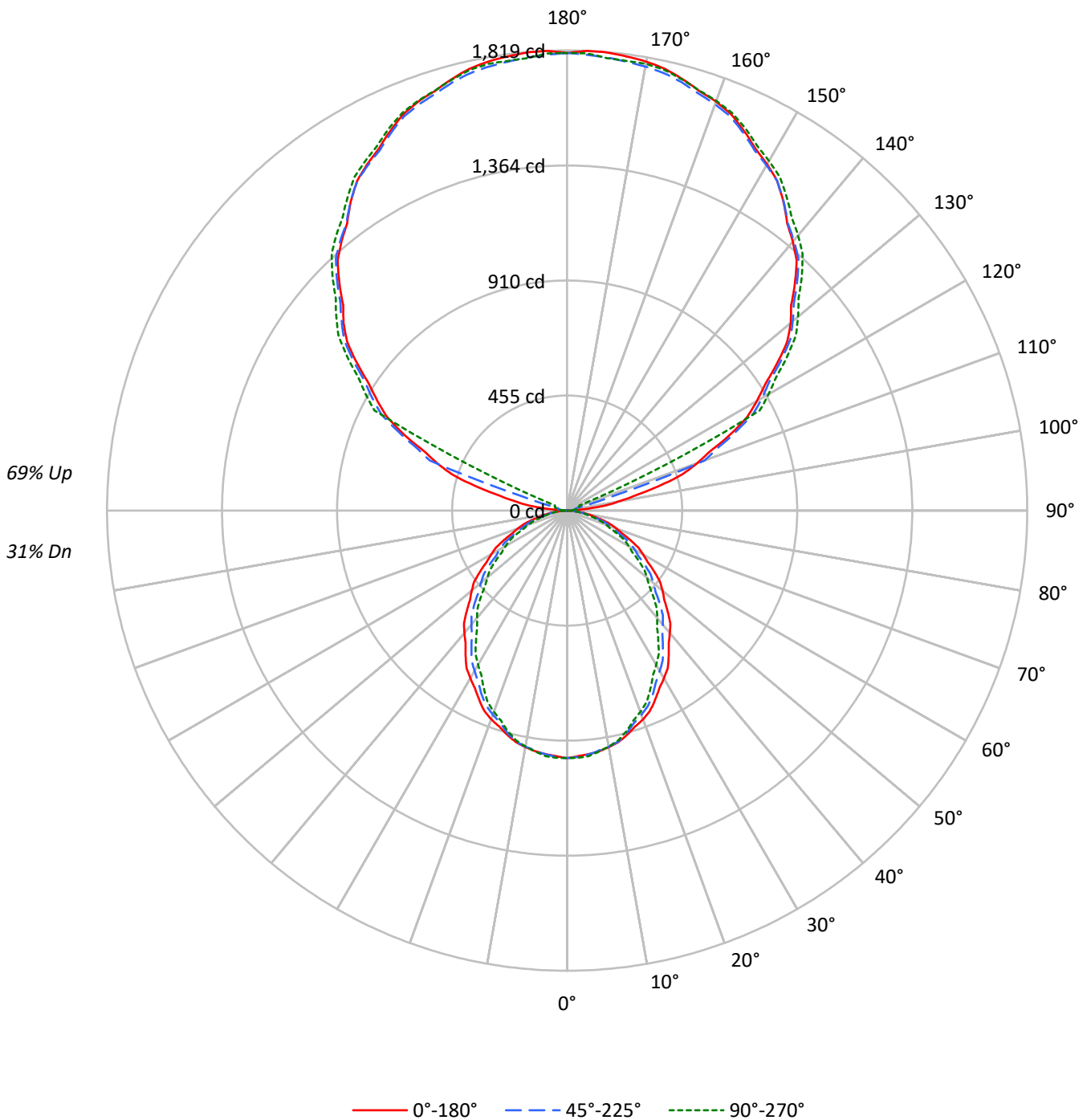
Lumens per Lamp: N/A  
Luminaire Lumens: 7438.7 lumens  
Efficiency: N/A  
Efficacy: 132.1 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 56.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	0
RCR																		
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	38	38	38	31
1	94	89	86	82	84	80	77	75	64	62	60	48	47	46	34	33	33	26
2	85	78	72	67	76	70	65	61	56	52	50	42	40	38	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	30	28	24	22	20	16
5	65	54	46	41	58	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	17	16	12
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	40	32	27	46	36	29	25	29	24	21	23	19	17	16	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10	8

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8521	8521	8521
5°	8448	8461	8520
10°	8400	8380	8373
15°	8267	8213	8145
20°	8137	7956	7845
25°	7918	7695	7479
30°	7699	7360	7081
35°	7446	7017	6682
40°	7179	6694	6303
45°	6910	6356	5933
50°	6668	6029	5572
55°	6369	5688	5232
60°	6028	5363	4893
65°	5665	5001	4554
70°	5266	4596	4120
75°	4788	4159	3732
80°	4283	3646	3380
85°	3297	2998	2468

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6910 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.0	1.2
10°-20°	256.5	3.4
20°-30°	368.8	5.0
30°-40°	414.5	5.6
40°-50°	400.4	5.4
50°-60°	338.3	4.5
60°-70°	243.0	3.3
70°-80°	132.8	1.8
80°-90°	35.4	0.5
90°-100°	31.5	0.4
100°-110°	200.6	2.7
110°-120°	637.4	8.6
120°-130°	924.9	12.4
130°-140°	994.8	13.4
140°-150°	936.6	12.6
150°-160°	763.0	10.3
160°-170°	496.6	6.7
170°-180°	171.7	2.3
0°-30°	717.2	9.6
0°-40°	1131.7	15.2
0°-60°	1870.4	25.1
0°-90°	2281.5	30.7
90°-120°	869.5	11.7
90°-150°	3725.8	50.1
90°-180°	5157.0	69.3
0°-180°	7438.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	966	980	968	968	975	92
15°	917	925	911	902	903	258
25°	824	825	801	783	778	379
35°	700	692	660	634	628	438
45°	561	549	516	489	482	433
55°	420	404	375	351	345	375
65°	275	265	243	225	221	273
75°	142	134	124	114	111	152
85°	33	31	30	26	25	39
90°	0	0	0	1	1	4
95°	72	21	22	14	13	91
105°	377	391	39	46	48	397
115°	713	728	735	744	426	701
125°	1012	1030	1030	1048	1062	905
135°	1274	1289	1287	1295	1312	982
145°	1491	1502	1492	1494	1513	932
155°	1656	1666	1648	1644	1667	763
165°	1766	1771	1752	1745	1763	499
175°	1818	1822	1798	1787	1796	173
180°	1809	1809	1809	1809	1809	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	978.4	978.4	978.4	978.4	978.4
2.5°	971.8	983.5	974.8	976.0	977.8
5°	966.4	979.6	967.9	968.0	974.6
7.5°	959.5	971.9	957.2	954.5	960.7
10°	949.9	962.3	947.6	942.5	946.9
12.5°	937.3	949.2	935.1	926.9	930.7
15°	916.9	925.0	910.9	902.0	903.4
17.5°	894.8	899.7	879.5	872.0	870.5
20°	878.0	882.4	858.5	848.0	846.5
22.5°	856.4	860.2	835.1	822.2	820.1
25°	824.0	824.8	800.8	782.7	778.3
27.5°	790.2	787.8	761.3	739.9	734.1
30°	765.6	762.7	731.9	709.3	704.2
32.5°	739.2	734.0	703.1	678.7	673.6
35°	700.4	692.4	660.0	634.4	628.5
37.5°	659.1	650.0	618.2	590.3	583.7
40°	631.5	621.3	588.8	560.9	554.4
42.5°	603.9	592.5	559.4	531.6	524.4
45°	561.1	549.4	516.1	489.0	481.7
47.5°	520.3	505.4	473.1	446.2	438.8
50°	492.2	476.1	445.0	418.6	411.3
52.5°	463.4	446.7	416.8	391.6	384.3
55°	419.5	404.1	374.6	351.2	344.6
57.5°	376.1	361.3	334.3	311.9	305.5
60°	346.1	333.6	307.9	286.8	280.9
62.5°	317.3	306.1	281.5	262.2	256.4
65°	274.9	264.7	242.7	225.4	221.0
67.5°	233.7	223.5	205.7	190.2	185.2
70°	206.8	196.5	180.5	166.2	161.8
72.5°	181.0	170.1	157.2	144.1	140.8
75°	142.3	133.5	123.6	113.8	110.9
77.5°	108.2	99.7	92.4	85.5	84.8
80°	85.4	78.1	72.7	68.2	67.4
82.5°	63.8	58.3	54.7	51.4	51.2
85°	33.0	30.8	30.0	26.2	24.7
87.5°	9.6	9.6	8.4	7.5	7.5
90°	0.0	0.0	0.0	1.3	1.3
92.5°	19.9	7.6	5.2	7.6	7.6
95°	71.9	20.8	22.2	14.4	13.1
97.5°	149.3	33.5	32.2	35.3	36.6
100°	207.9	68.6	35.3	40.6	41.8
102.5°	272.8	258.2	36.4	43.7	46.0
105°	376.6	390.7	39.2	45.8	48.4
107.5°	478.6	492.7	182.6	47.4	50.0
110°	546.6	560.7	578.0	48.4	51.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	610.5	627.6	640.8	107.8	53.1
115°	712.7	728.1	735.0	743.5	426.3
117.5°	803.0	821.9	829.7	844.4	858.7
120°	865.7	883.6	889.3	904.0	919.4
122.5°	927.5	943.3	946.8	963.6	978.0
125°	1012.2	1030.1	1030.5	1047.8	1061.9
127.5°	1097.0	1112.3	1111.6	1124.5	1140.1
130°	1153.5	1163.7	1163.9	1174.8	1191.4
132.5°	1200.5	1214.9	1215.2	1223.9	1240.6
135°	1273.8	1289.1	1286.8	1295.1	1311.7
137.5°	1342.6	1357.4	1353.3	1360.2	1377.3
140°	1387.5	1400.3	1394.1	1401.1	1420.2
142.5°	1429.4	1442.2	1432.8	1438.7	1458.9
145°	1490.9	1502.4	1492.2	1493.9	1513.1
147.5°	1545.5	1556.8	1544.5	1546.2	1564.1
150°	1581.1	1591.3	1575.9	1577.6	1595.5
152.5°	1612.5	1621.7	1605.2	1604.9	1625.8
155°	1655.6	1665.9	1647.8	1644.4	1667.4
157.5°	1694.9	1704.3	1686.2	1683.8	1701.7
160°	1721.0	1727.4	1709.3	1705.7	1723.6
162.5°	1738.8	1746.2	1728.1	1722.5	1740.4
165°	1765.5	1770.6	1752.4	1745.0	1762.9
167.5°	1788.5	1794.4	1771.0	1764.4	1783.5
170°	1802.1	1805.9	1782.5	1773.8	1793.0
172.5°	1810.5	1813.3	1789.8	1779.9	1793.0
175°	1817.8	1821.6	1798.2	1786.6	1795.6
177.5°	1819.1	1821.2	1803.4	1793.3	1808.6
180°	1808.6	1808.6	1808.6	1808.6	1808.6



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.32	13.02	13.43	14.13	15.65	11.22	11.92	12.33	13.02	14.55
	3H	13.95	14.58	15.07	15.69	17.23	12.73	13.36	13.85	14.48	16.02
	4H	14.57	15.17	15.70	16.28	17.83	13.30	13.90	14.43	15.01	16.56
	6H	14.97	15.52	16.10	16.63	18.19	13.66	14.21	14.80	15.33	16.89
	8H	15.11	15.63	16.25	16.76	18.32	13.80	14.32	14.94	15.45	17.00
	12H	15.18	15.68	16.32	16.80	18.37	13.86	14.35	15.00	15.48	17.05
4H	2H	12.71	13.31	13.84	14.42	15.96	11.83	12.43	12.97	13.54	15.09
	3H	14.56	15.06	15.70	16.20	17.76	13.55	14.05	14.69	15.19	16.75
	4H	15.30	15.76	16.45	16.89	18.47	14.22	14.68	15.36	15.81	17.39
	6H	15.81	16.21	16.96	17.36	18.93	14.69	15.08	15.84	16.23	17.80
	8H	16.01	16.38	17.16	17.52	19.11	14.87	15.24	16.02	16.38	17.97
	12H	16.11	16.45	17.28	17.60	19.19	14.95	15.29	16.12	16.44	18.03
8H	4H	15.45	15.81	16.59	16.95	18.54	14.48	14.85	15.63	15.99	17.58
	6H	16.08	16.38	17.25	17.57	19.15	15.08	15.38	16.25	16.57	18.15
	8H	16.37	16.63	17.55	17.80	19.40	15.35	15.62	16.53	16.78	18.38
	12H	16.54	16.77	17.72	17.93	19.57	15.50	15.73	16.68	16.89	18.52
12H	4H	15.42	15.75	16.58	16.90	18.49	14.48	14.81	15.64	15.96	17.55
	6H	16.11	16.37	17.28	17.54	19.14	15.14	15.41	16.32	16.57	18.17
	8H	16.42	16.65	17.60	17.81	19.45	15.44	15.67	16.62	16.83	18.47