

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: P1438618

Luminaire Tested: CB2-030U-085D-840-1D-UNV-STD-W-8

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438618  
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: CB2-030U-085D-840-1D-UNV-STD-W-8  
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT  
2-INCH APERTURE  
DOWNLIGHT 850 LUMENS PER FOOT  
UPLIGHT 300 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

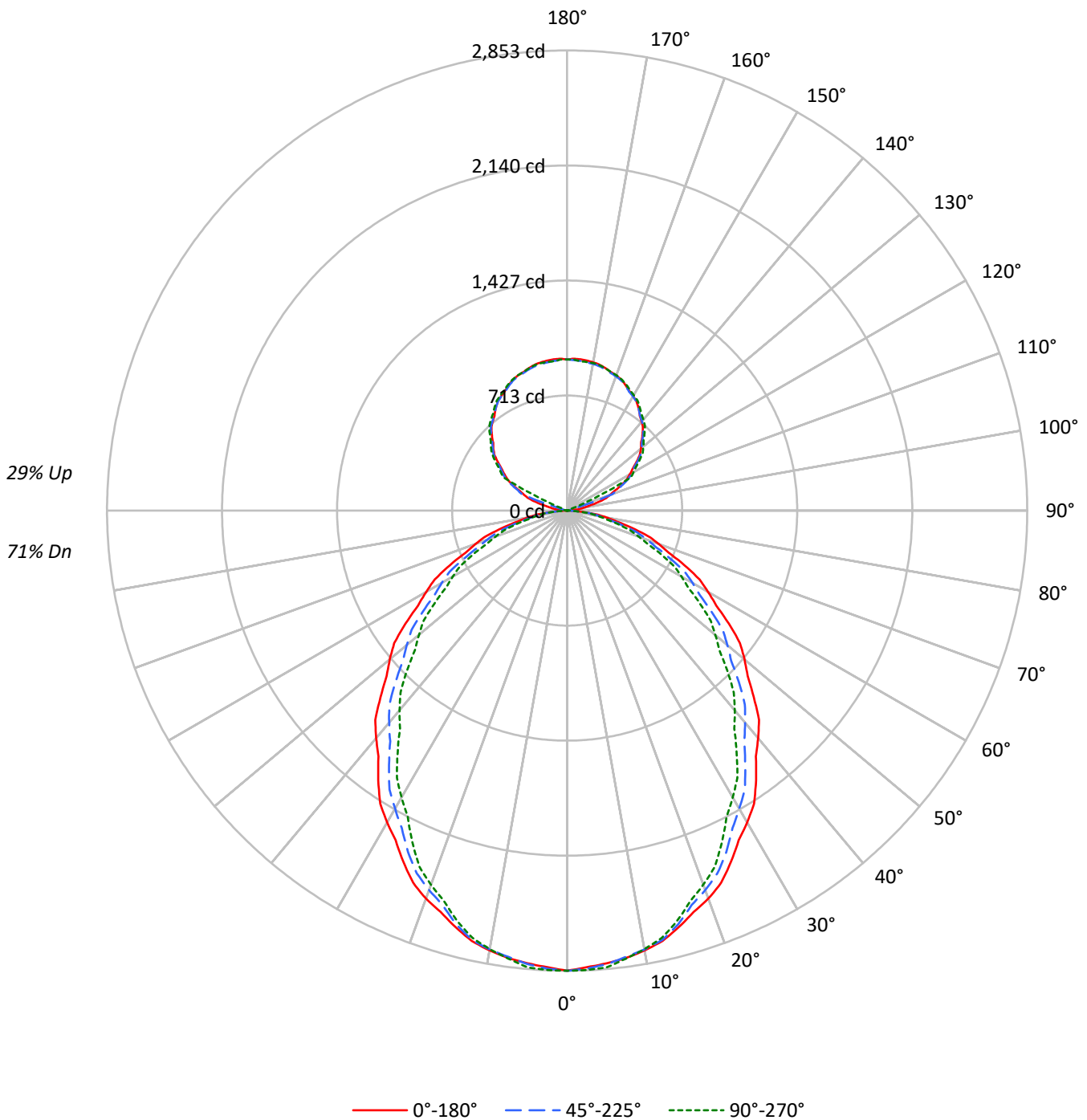
Lumens per Lamp: N/A  
Luminaire Lumens: 9323.9 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 74.1  
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

TEST NUMBER: P1438618

CATALOG NUMBER: CB2-030U-085D-840-1D-UNV-STD-W-8

### 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	50	30	10	0		
RCR																										
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	76	76	76	76	76	76	71		
1	103	98	95	91	97	93	90	87	84	81	79	75	73	71	67	66	65	65	65	65	65	65	65	61		
2	94	86	80	75	89	82	76	72	74	70	66	66	63	60	60	57	55	55	55	55	55	55	55	51		
3	86	76	69	63	81	72	66	60	65	60	56	59	55	51	53	50	47	47	47	47	47	47	47	44		
4	79	68	60	53	74	64	57	52	58	53	48	53	48	44	48	44	41	41	41	41	41	41	41	38		
5	72	61	52	46	68	58	50	45	53	46	42	48	43	39	43	39	36	36	36	36	36	36	36	33		
6	67	55	46	40	63	52	45	39	48	41	37	43	38	34	39	35	32	32	32	32	32	32	32	29		
7	62	50	41	36	59	47	40	35	43	37	32	39	34	30	36	32	28	28	28	28	28	28	28	26		
8	58	45	37	32	55	43	36	31	40	33	29	36	31	27	33	29	25	25	25	25	25	25	25	23		
9	54	41	34	29	51	40	33	28	37	30	26	33	28	25	31	26	23	23	23	23	23	23	23	21		
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	28	24	21	21	21	21	21	21	21	19		

**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



TEST NUMBER: P1438618

CATALOG NUMBER: CB2-030U-085D-840-1D-UNV-STD-W-8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.3	2.9
10°-20°	747.8	8.0
20°-30°	1075.3	11.5
30°-40°	1208.6	13.0
40°-50°	1167.5	12.5
50°-60°	986.4	10.6
60°-70°	708.5	7.6
70°-80°	387.3	4.2
80°-90°	102.9	1.1
90°-100°	16.3	0.2
100°-110°	103.9	1.1
110°-120°	330.2	3.5
120°-130°	479.1	5.1
130°-140°	515.3	5.5
140°-150°	485.1	5.2
150°-160°	395.2	4.2
160°-170°	257.2	2.8
170°-180°	88.9	1.0
0°-30°	2091.4	22.4
0°-40°	3300.0	35.4
0°-60°	5453.9	58.5
0°-90°	6652.6	71.3
90°-120°	450.4	4.8
90°-150°	1930.0	20.7
90°-180°	2671.0	28.6
0°-180°	9323.9	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	0	1	1	5
95°	37	11	12	7	7	47
105°	195	202	20	24	25	205
115°	369	377	381	385	221	363
125°	524	534	534	543	550	469
135°	660	668	667	671	680	509
145°	772	778	773	774	784	483
155°	858	863	854	852	864	395
165°	914	917	908	904	913	258
175°	942	944	932	926	930	90
180°	937	937	937	937	937	

TEST NUMBER: P1438618

CATALOG NUMBER: CB2-030U-085D-840-1D-UNV-STD-W-8

**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	24.5	21.1	21.1
90°	0.0	0.0	0.0	0.7	0.7
92.5°	10.3	3.9	2.7	3.9	3.9
95°	37.3	10.8	11.5	7.4	6.8
97.5°	77.4	17.4	16.7	18.3	19.0
100°	107.7	35.5	18.3	21.0	21.7
102.5°	141.3	133.8	18.8	22.7	23.8
105°	195.1	202.4	20.3	23.7	25.1
107.5°	247.9	255.2	94.6	24.6	25.9
110°	283.2	290.4	299.4	25.1	26.4



TEST NUMBER: P1438618

CATALOG NUMBER: CB2-030U-085D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	316.2	325.1	331.9	55.9	27.5
115°	369.2	377.1	380.7	385.1	220.8
117.5°	415.9	425.7	429.8	437.4	444.8
120°	448.5	457.7	460.6	468.3	476.2
122.5°	480.4	488.6	490.5	499.2	506.6
125°	524.3	533.6	533.8	542.8	550.1
127.5°	568.2	576.2	575.8	582.5	590.6
130°	597.5	602.8	602.9	608.5	617.1
132.5°	621.9	629.3	629.5	634.0	642.6
135°	659.8	667.8	666.6	670.8	679.5
137.5°	695.4	703.1	701.0	704.6	713.5
140°	718.7	725.4	722.1	725.7	735.7
142.5°	740.4	747.0	742.2	745.3	755.7
145°	772.3	778.2	772.9	773.8	783.8
147.5°	800.6	806.4	800.0	800.9	810.2
150°	819.0	824.3	816.3	817.2	826.5
152.5°	835.3	840.0	831.5	831.3	842.2
155°	857.6	862.9	853.6	851.8	863.7
157.5°	877.9	882.8	873.5	872.2	881.5
160°	891.5	894.8	885.4	883.6	892.8
162.5°	900.7	904.5	895.1	892.2	901.5
165°	914.5	917.2	907.7	903.9	913.2
167.5°	926.4	929.5	917.4	913.9	923.9
170°	933.5	935.5	923.3	918.8	928.7
172.5°	937.8	939.3	927.1	922.0	928.7
175°	941.6	943.6	931.5	925.5	930.1
177.5°	942.3	943.4	934.2	928.9	936.9
180°	936.9	936.9	936.9	936.9	936.9



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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	19.94	21.02	20.69	21.79	22.72	18.84	19.92	19.59	20.69	21.62
	3H	21.60	22.57	22.37	23.35	24.31	20.39	21.35	21.15	22.13	23.09
	4H	22.24	23.15	23.02	23.94	24.91	20.97	21.88	21.75	22.67	23.64
	6H	22.65	23.49	23.45	24.29	25.28	21.35	22.19	22.15	22.99	23.98
	8H	22.81	23.61	23.61	24.43	25.41	21.50	22.30	22.30	23.11	24.10
	12H	22.89	23.65	23.70	24.46	25.48	21.57	22.33	22.38	23.14	24.16
4H	2H	20.38	21.29	21.16	22.08	23.05	19.50	20.41	20.29	21.20	22.18
	3H	22.26	23.02	23.06	23.85	24.84	21.26	22.01	22.06	22.84	23.83
	4H	23.02	23.71	23.83	24.53	25.55	21.94	22.63	22.75	23.45	24.47
	6H	23.55	24.15	24.38	25.00	26.02	22.43	23.02	23.26	23.87	24.89
	8H	23.76	24.32	24.59	25.16	26.20	22.62	23.18	23.45	24.02	25.06
	12H	23.88	24.38	24.73	25.24	26.28	22.72	23.22	23.57	24.08	25.12
8H	4H	23.19	23.75	24.03	24.59	25.63	22.23	22.79	23.06	23.63	24.67
	6H	23.84	24.30	24.70	25.19	26.23	22.84	23.30	23.70	24.19	25.22
	8H	24.13	24.54	25.01	25.43	26.48	23.12	23.53	23.99	24.41	25.46
	12H	24.32	24.68	25.19	25.55	26.66	23.28	23.64	24.15	24.51	25.62
12H	4H	23.18	23.68	24.04	24.55	25.59	22.24	22.74	23.10	23.61	24.65
	6H	23.87	24.28	24.75	25.16	26.22	22.91	23.32	23.78	24.20	25.25
	8H	24.20	24.56	25.08	25.43	26.54	23.22	23.58	24.10	24.45	25.56