

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: P1439072

Luminaire Tested: CB2-D-085U-120D-940-1D-UNV-STD-W-8

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1439072
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2312-242-13, G2-2312-242-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/31/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: CB2-D-085U-120D-940-1D-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

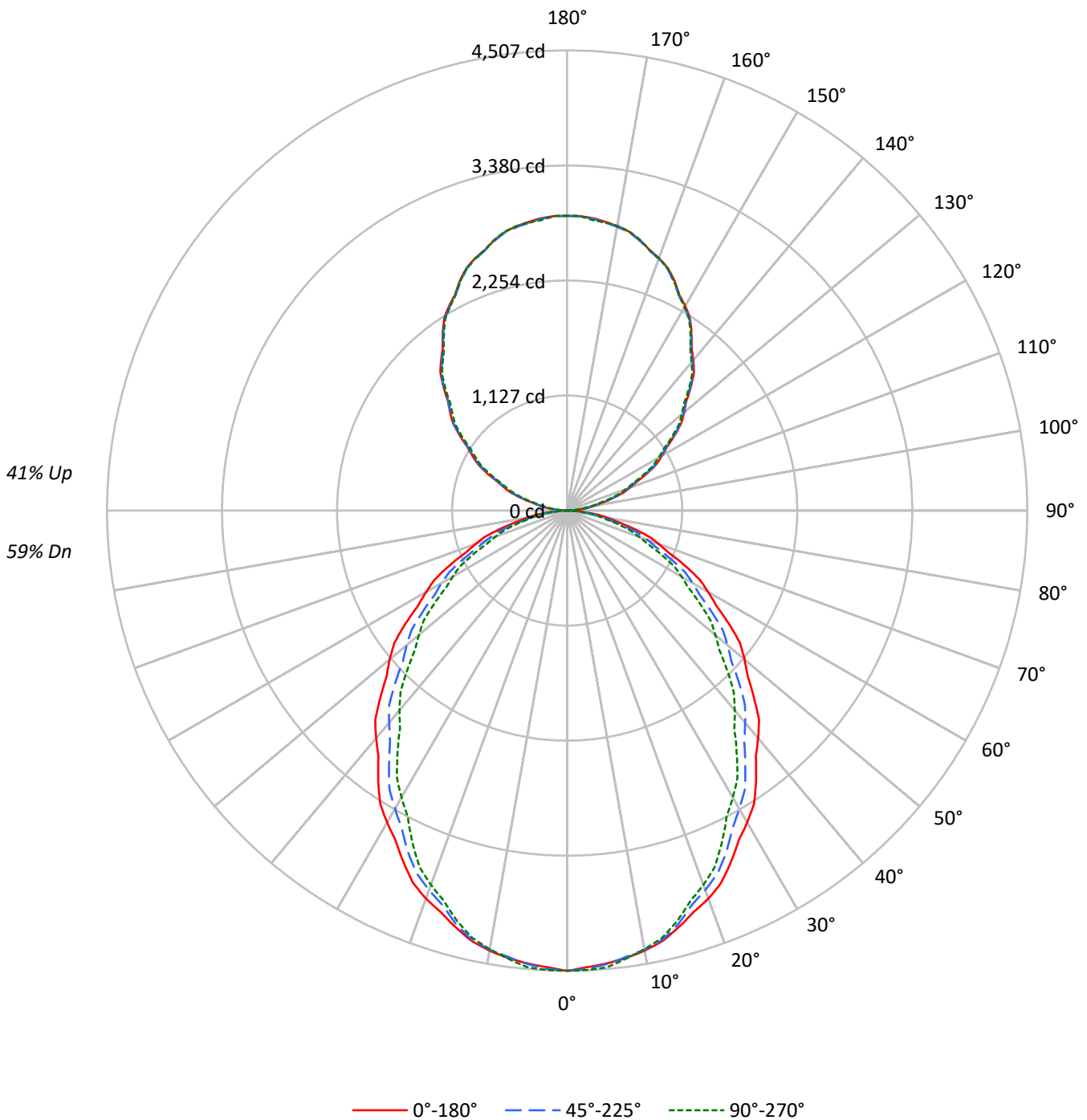
Lumens per Lamp: N/A
Luminaire Lumens: 17873.2 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 146
Input Voltage (V): 120
Input Current (A_{in}): 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										
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	64	64	64	64	64	64	59														
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55	55	55	55	55	55	55	50														
2	91	84	78	73	85	78	73	69	68	64	61	59	56	53	51	48	46	46	46	46	46	46	46	42														
3	83	74	67	61	78	69	63	58	61	56	51	52	49	45	45	42	40	40	40	40	40	40	40	36														
4	76	66	58	52	71	62	54	49	54	48	44	47	43	39	40	37	34	34	34	34	34	34	34	31														
5	70	59	50	44	65	55	48	42	48	43	38	42	38	34	36	33	30	30	30	30	30	30	30	27														
6	65	53	45	39	60	50	42	37	44	38	33	38	34	30	33	30	27	27	27	27	27	27	27	24														
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	30	27	24	24	24	24	24	24	24	21														
8	56	43	36	30	52	41	34	29	36	31	26	32	27	24	28	24	21	21	21	21	21	21	21	19														
9	52	40	32	27	49	38	31	26	33	28	24	30	25	22	26	22	19	19	19	19	19	19	19	17														
10	49	37	29	24	46	35	28	23	31	25	22	27	23	20	24	20	18	18	18	18	18	18	18	16														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	39253	39253	39253
5°	38920	38980	39251
10°	38699	38607	38577
15°	38086	37837	37526
20°	37485	36654	36143
25°	36479	35451	34456
30°	35469	33907	32623
35°	34306	32325	30784
40°	33075	30839	29034
45°	31837	29286	27330
50°	30721	27774	25670
55°	29344	26200	24105
60°	27772	24706	22542
65°	26100	23042	20979
70°	24253	21177	18982
75°	22063	19162	17187
80°	19729	16791	15577
85°	15178	13789	11381

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 31837 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.9	2.4
10°-20°	1181.5	6.6
20°-30°	1698.9	9.5
30°-40°	1909.5	10.7
40°-50°	1844.6	10.3
50°-60°	1558.5	8.7
60°-70°	1119.4	6.3
70°-80°	611.8	3.4
80°-90°	162.7	0.9
90°-100°	111.5	0.6
100°-110°	460.0	2.6
110°-120°	835.0	4.7
120°-130°	1136.2	6.4
130°-140°	1311.6	7.3
140°-150°	1321.7	7.4
150°-160°	1140.6	6.4
160°-170°	773.1	4.3
170°-180°	272.7	1.5
0°-30°	3304.2	18.5
0°-40°	5213.7	29.2
0°-60°	8616.8	48.2
0°-90°	10510.7	58.8
90°-120°	1406.5	7.9
90°-150°	5176.0	29.0
90°-180°	7362.0	41.2
0°-180°	17873.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4507	4507	4507	4507	4507	
5°	4452	4513	4459	4460	4490	423
15°	4224	4261	4197	4155	4162	1191
25°	3796	3800	3689	3606	3586	1748
35°	3227	3190	3040	2923	2896	2016
45°	2585	2531	2378	2253	2219	1997
55°	1933	1862	1726	1618	1588	1728
65°	1267	1219	1118	1038	1018	1256
75°	656	615	570	524	511	701
85°	152	142	138	121	114	181
90°	0	0	2	0	2	10
95°	108	95	90	70	70	126
105°	455	448	437	412	408	483
115°	865	862	847	822	820	853
125°	1286	1299	1272	1245	1248	1148
135°	1714	1734	1705	1673	1684	1320
145°	2124	2148	2114	2090	2106	1327
155°	2484	2508	2472	2457	2477	1142
165°	2745	2774	2738	2723	2747	773
175°	2876	2906	2869	2851	2858	273
180°	2887	2887	2887	2887	2887	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4507.3	4507.3	4507.3	4507.3	4507.3
2.5°	4476.9	4530.9	4490.7	4496.4	4504.5
5°	4452.1	4512.8	4459.0	4459.7	4490.0
7.5°	4420.3	4477.7	4410.0	4397.5	4425.9
10°	4376.2	4433.5	4365.8	4342.1	4362.4
12.5°	4318.2	4372.8	4307.8	4270.3	4287.8
15°	4224.3	4261.4	4196.7	4155.4	4162.2
17.5°	4122.1	4145.1	4051.7	4017.1	4010.3
20°	4044.8	4065.1	3955.1	3906.6	3899.9
22.5°	3945.4	3963.0	3847.4	3787.9	3778.4
25°	3796.4	3799.7	3689.4	3606.1	3585.8
27.5°	3640.4	3629.6	3507.1	3408.5	3382.2
30°	3527.2	3513.7	3371.8	3267.8	3244.2
32.5°	3405.7	3381.4	3239.3	3127.0	3103.3
35°	3226.9	3189.8	3040.5	2922.6	2895.6
37.5°	3036.4	2994.5	2848.0	2719.6	2689.2
40°	2909.4	2862.1	2712.7	2584.3	2553.9
42.5°	2782.4	2729.7	2577.4	2448.9	2415.9
45°	2585.0	2531.0	2377.9	2252.9	2219.1
47.5°	2397.2	2328.4	2179.8	2055.5	2021.7
50°	2267.5	2193.2	2050.0	1928.5	1894.7
52.5°	2134.9	2058.0	1920.3	1804.2	1770.5
55°	1932.7	1861.8	1725.6	1617.9	1587.6
57.5°	1732.5	1664.4	1539.9	1437.1	1407.4
60°	1594.5	1537.1	1418.5	1321.2	1294.2
62.5°	1461.9	1410.0	1297.0	1208.0	1181.0
65°	1266.6	1219.4	1118.2	1038.4	1018.1
67.5°	1076.8	1029.5	947.7	876.1	853.1
70°	952.5	905.3	831.7	765.7	745.5
72.5°	833.8	783.9	724.1	663.7	648.8
75°	655.7	615.2	569.5	524.3	510.8
77.5°	498.4	459.2	425.9	394.1	390.7
80°	393.4	359.7	334.8	314.0	310.6
82.5°	294.0	268.4	251.9	236.7	236.1
85°	151.9	141.7	138.0	120.6	113.9
87.5°	44.2	44.2	39.1	33.1	33.6
90°	0.0	0.0	2.3	0.1	2.3
92.5°	27.0	23.5	22.1	14.5	16.7
95°	108.1	94.9	90.1	69.8	69.8
97.5°	204.0	190.8	183.8	162.9	158.5
100°	272.5	259.3	252.2	229.6	225.2
102.5°	342.7	336.6	324.3	299.8	295.4
105°	454.9	448.3	436.9	412.0	407.6
107.5°	570.2	571.5	554.4	534.0	527.8
110°	653.0	650.8	637.3	616.9	612.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	737.7	733.7	720.1	699.8	695.4
115°	864.7	862.5	846.7	821.9	819.7
117.5°	985.4	992.5	973.7	947.6	946.7
120°	1071.9	1080.7	1058.4	1035.7	1031.3
122.5°	1156.5	1167.1	1144.8	1118.7	1119.6
125°	1285.8	1299.0	1272.3	1245.3	1247.5
127.5°	1410.6	1426.8	1402.0	1374.6	1377.2
130°	1495.2	1515.0	1488.5	1459.3	1463.7
132.5°	1581.7	1601.5	1574.9	1544.0	1552.0
135°	1713.6	1733.5	1704.6	1673.4	1684.4
137.5°	1838.0	1857.8	1826.2	1800.0	1813.2
140°	1920.8	1940.6	1907.3	1882.8	1896.0
142.5°	2001.9	2025.2	1990.2	1964.0	1980.7
145°	2123.5	2147.7	2114.5	2090.1	2105.5
147.5°	2238.8	2263.0	2229.3	2205.8	2221.7
150°	2312.6	2336.9	2301.4	2281.5	2299.1
152.5°	2381.1	2408.8	2371.6	2351.9	2374.8
155°	2483.8	2508.0	2472.5	2457.2	2477.0
157.5°	2573.0	2601.1	2565.7	2552.6	2568.4
160°	2632.4	2658.8	2623.4	2610.3	2627.9
162.5°	2677.4	2705.6	2672.0	2657.2	2678.3
165°	2745.0	2773.6	2738.2	2723.0	2747.2
167.5°	2798.1	2828.5	2792.7	2777.1	2801.7
170°	2830.6	2859.2	2821.6	2804.1	2830.6
172.5°	2852.2	2882.6	2843.2	2825.6	2843.2
175°	2875.6	2906.4	2868.8	2851.0	2857.6
177.5°	2886.9	2911.5	2881.5	2865.7	2886.9
180°	2886.9	2886.9	2886.9	2886.9	2886.9



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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	20.53	21.46	21.41	22.36	23.50	19.43	20.36	20.31	21.26	22.40
	3H	22.18	23.02	23.07	23.92	25.09	20.96	21.80	21.86	22.71	23.87
	4H	22.81	23.60	23.72	24.52	25.69	21.54	22.33	22.45	23.24	24.42
	6H	23.22	23.95	24.14	24.87	26.06	21.91	22.64	22.83	23.56	24.75
	8H	23.37	24.06	24.30	25.00	26.19	22.06	22.75	22.98	23.69	24.88
	12H	23.44	24.10	24.38	25.04	26.25	22.12	22.78	23.06	23.71	24.93
4H	2H	20.95	21.74	21.86	22.65	23.83	20.07	20.86	20.99	21.78	22.95
	3H	22.82	23.48	23.75	24.43	25.62	21.81	22.47	22.74	23.42	24.61
	4H	23.57	24.17	24.51	25.11	26.33	22.49	23.09	23.43	24.03	25.25
	6H	24.10	24.61	25.04	25.58	26.79	22.97	23.49	23.92	24.45	25.67
	8H	24.30	24.79	25.25	25.74	26.97	23.16	23.65	24.11	24.60	25.83
	12H	24.41	24.85	25.38	25.82	27.06	23.25	23.69	24.22	24.66	25.90
8H	4H	23.73	24.22	24.68	25.18	26.41	22.77	23.25	23.72	24.21	25.44
	6H	24.38	24.78	25.35	25.78	27.01	23.38	23.78	24.35	24.78	26.01
	8H	24.67	25.02	25.65	26.01	27.26	23.65	24.01	24.64	25.00	26.24
	12H	24.85	25.16	25.84	26.14	27.43	23.81	24.12	24.79	25.10	26.39
12H	4H	23.72	24.15	24.69	25.13	26.36	22.78	23.21	23.75	24.19	25.42
	6H	24.41	24.76	25.39	25.75	27.00	23.44	23.79	24.43	24.78	26.03
	8H	24.73	25.04	25.72	26.02	27.32	23.75	24.06	24.74	25.04	26.34