

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: P1439025

Luminaire Tested: CB2-D-055U-085D-927-1D-UNV-STD-W-4

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1439025  
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-055U-085D-927-1D-UNV-STD-W-4  
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: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

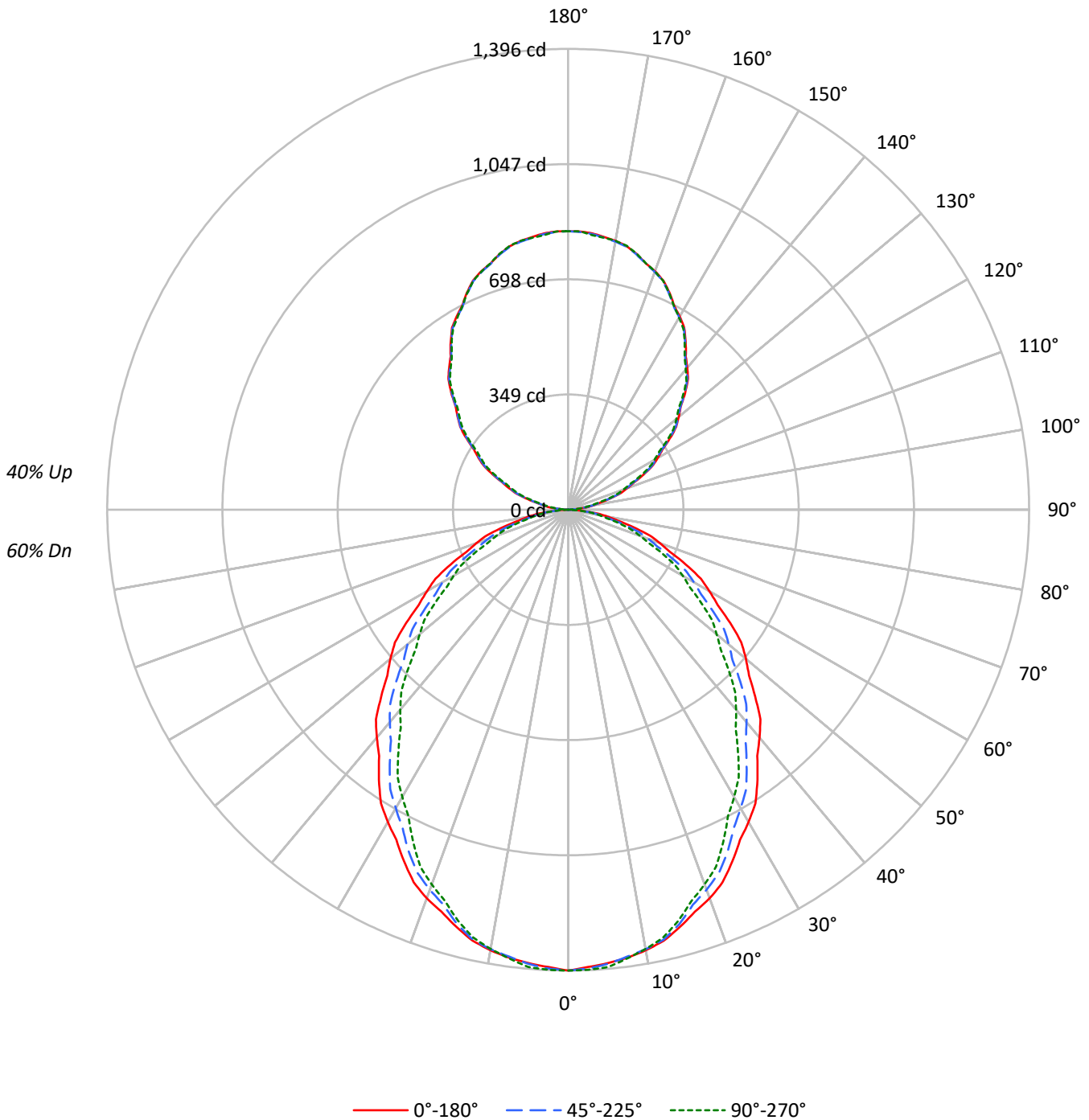
Lumens per Lamp: N/A  
Luminaire Lumens: 5406.7 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 44.9  
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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	65	65	65	60
1	100	96	92	89	94	90	87	83	78	76	74	68	66	64	58	57	56	51
2	92	84	78	73	85	79	73	69	69	65	61	60	57	54	52	49	47	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	46	43	41	37
4	77	66	58	52	71	62	55	49	54	49	44	48	43	40	41	38	35	32
5	71	59	51	45	66	55	48	43	49	43	39	43	38	35	37	34	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	30	34	30	27	25
7	60	48	40	34	56	45	38	33	40	34	30	35	31	27	31	27	24	22
8	56	44	36	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	23	20	18
10	49	37	29	25	46	35	28	24	31	26	22	28	23	20	25	21	18	16

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

	0°	45°	90°
0°	24315	24315	24315
5°	24109	24147	24315
10°	23972	23915	23896
15°	23593	23438	23245
20°	23221	22706	22389
25°	22596	21960	21343
30°	21970	21003	20208
35°	21250	20023	19068
40°	20488	19103	17985
45°	19720	18141	16929
50°	19030	17204	15900
55°	18177	16231	14931
60°	17201	15303	13962
65°	16168	14272	12994
70°	15023	13118	11759
75°	13668	11871	10646
80°	12227	10401	9649
85°	9393	8553	7054

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19720 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.3	2.4
10°-20°	365.9	6.8
20°-30°	526.2	9.7
30°-40°	591.4	10.9
40°-50°	571.3	10.6
50°-60°	482.7	8.9
60°-70°	346.7	6.4
70°-80°	189.5	3.5
80°-90°	50.4	0.9
90°-100°	32.6	0.6
100°-110°	134.4	2.5
110°-120°	244.0	4.5
120°-130°	332.0	6.1
130°-140°	383.3	7.1
140°-150°	386.2	7.1
150°-160°	333.3	6.2
160°-170°	225.9	4.2
170°-180°	79.7	1.5
0°-30°	1023.4	18.9
0°-40°	1614.8	29.9
0°-60°	2668.8	49.4
0°-90°	3255.4	60.2
90°-120°	411.0	7.6
90°-150°	1512.4	28.0
90°-180°	2151.0	39.8
0°-180°	5406.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1396	1396	1396	1396	1396	
5°	1379	1398	1381	1381	1391	131
15°	1308	1320	1300	1287	1289	369
25°	1176	1177	1143	1117	1111	541
35°	999	988	942	905	897	624
45°	801	784	736	698	687	619
55°	599	577	534	501	492	535
65°	392	378	346	322	315	389
75°	203	191	176	162	158	217
85°	47	44	43	37	35	56
90°	0	0	1	0	1	3
95°	32	28	26	20	20	37
105°	133	131	128	120	119	141
115°	253	252	247	240	240	249
125°	376	380	372	364	364	335
135°	501	506	498	489	492	386
145°	620	628	618	611	615	388
155°	726	733	722	718	724	334
165°	802	810	800	796	803	226
175°	840	849	838	833	835	80
180°	844	844	844	844	844	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1396.0	1396.0	1396.0	1396.0	1396.0
2.5°	1386.6	1403.3	1390.9	1392.7	1395.2
5°	1378.9	1397.7	1381.1	1381.3	1390.7
7.5°	1369.1	1386.8	1365.9	1362.0	1370.8
10°	1355.4	1373.2	1352.2	1344.9	1351.1
12.5°	1337.4	1354.4	1334.2	1322.6	1328.0
15°	1308.4	1319.9	1299.8	1287.0	1289.1
17.5°	1276.7	1283.8	1254.9	1244.2	1242.1
20°	1252.8	1259.1	1225.0	1210.0	1207.9
22.5°	1222.0	1227.4	1191.6	1173.2	1170.3
25°	1175.8	1176.9	1142.7	1116.9	1110.6
27.5°	1127.5	1124.2	1086.2	1055.7	1047.5
30°	1092.4	1088.3	1044.3	1012.1	1004.8
32.5°	1054.8	1047.3	1003.3	968.5	961.2
35°	999.4	987.9	941.7	905.2	896.8
37.5°	940.4	927.5	882.1	842.3	832.9
40°	901.1	886.5	840.2	800.4	791.0
42.5°	861.8	845.5	798.3	758.5	748.2
45°	800.6	783.9	736.5	697.8	687.3
47.5°	742.5	721.2	675.1	636.6	626.2
50°	702.3	679.3	634.9	597.3	586.8
52.5°	661.2	637.4	594.8	558.8	548.4
55°	598.6	576.7	534.5	501.1	491.7
57.5°	536.6	515.5	477.0	445.1	435.9
60°	493.8	476.1	439.3	409.2	400.8
62.5°	452.8	436.7	401.7	374.1	365.8
65°	392.3	377.7	346.3	321.6	315.3
67.5°	333.5	318.9	293.5	271.3	264.2
70°	295.0	280.4	257.6	237.2	230.9
72.5°	258.3	242.8	224.3	205.6	201.0
75°	203.1	190.6	176.4	162.4	158.2
77.5°	154.4	142.2	131.9	122.0	121.0
80°	121.9	111.4	103.7	97.2	96.2
82.5°	91.1	83.1	78.0	73.3	73.1
85°	47.0	43.9	42.8	37.4	35.3
87.5°	13.7	13.7	12.1	10.3	10.4
90°	0.0	0.0	0.7	0.0	0.7
92.5°	7.9	6.9	6.4	4.2	4.9
95°	31.6	27.7	26.3	20.4	20.4
97.5°	59.6	55.8	53.7	47.6	46.3
100°	79.6	75.8	73.7	67.1	65.8
102.5°	100.1	98.3	94.7	87.6	86.3
105°	132.9	131.0	127.6	120.4	119.1
107.5°	166.6	167.0	162.0	156.0	154.2
110°	190.8	190.2	186.2	180.3	179.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	215.6	214.4	210.4	204.5	203.2
115°	252.7	252.0	247.4	240.1	239.5
117.5°	287.9	290.0	284.5	276.9	276.6
120°	313.2	315.8	309.3	302.6	301.4
122.5°	337.9	341.0	334.5	326.9	327.1
125°	375.7	379.6	371.8	363.9	364.5
127.5°	412.2	416.9	409.7	401.7	402.4
130°	436.9	442.7	434.9	426.4	427.7
132.5°	462.2	468.0	460.2	451.2	453.5
135°	500.7	506.5	498.1	489.0	492.2
137.5°	537.0	542.8	533.6	525.9	529.8
140°	561.3	567.1	557.3	550.2	554.0
142.5°	584.9	591.8	581.5	573.9	578.8
145°	620.5	627.6	617.8	610.7	615.2
147.5°	654.2	661.2	651.4	644.5	649.2
150°	675.7	682.8	672.5	666.7	671.8
152.5°	695.8	703.9	693.0	687.2	693.9
155°	725.8	732.8	722.5	718.0	723.8
157.5°	751.8	760.0	749.7	745.9	750.5
160°	769.2	776.9	766.6	762.7	767.9
162.5°	782.3	790.6	780.8	776.4	782.6
165°	802.1	810.4	800.1	795.7	802.7
167.5°	817.6	826.5	816.0	811.5	818.7
170°	827.1	835.4	824.5	819.4	827.1
172.5°	833.4	842.3	830.8	825.6	830.8
175°	840.2	849.3	838.3	833.1	835.0
177.5°	843.5	850.7	842.0	837.4	843.5
180°	843.5	843.5	843.5	843.5	843.5



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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	18.98	19.93	19.85	20.82	21.93	17.88	18.83	18.75	19.72	20.84
	3H	20.63	21.48	21.51	22.38	23.52	19.42	20.27	20.30	21.16	22.31
	4H	21.27	22.07	22.16	22.97	24.13	19.99	20.80	20.89	21.70	22.85
	6H	21.67	22.41	22.58	23.32	24.49	20.37	21.11	21.28	22.02	23.19
	8H	21.83	22.53	22.74	23.45	24.62	20.51	21.22	21.43	22.14	23.31
	12H	21.90	22.57	22.82	23.49	24.68	20.58	21.25	21.50	22.17	23.36
4H	2H	19.40	20.20	20.30	21.11	22.26	18.53	19.33	19.43	20.23	21.39
	3H	21.28	21.95	22.19	22.88	24.05	20.27	20.94	21.18	21.87	23.04
	4H	22.03	22.64	22.95	23.57	24.76	20.95	21.56	21.87	22.49	23.68
	6H	22.55	23.08	23.49	24.03	25.23	21.43	21.95	22.36	22.91	24.10
	8H	22.76	23.25	23.70	24.20	25.41	21.62	22.11	22.56	23.06	24.27
	12H	22.87	23.31	23.83	24.28	25.49	21.71	22.15	22.67	23.12	24.33
8H	4H	22.19	22.68	23.13	23.63	24.84	21.23	21.72	22.17	22.67	23.88
	6H	22.84	23.24	23.80	24.23	25.44	21.84	22.24	22.80	23.23	24.44
	8H	23.13	23.49	24.10	24.47	25.69	22.11	22.47	23.08	23.45	24.67
	12H	23.31	23.62	24.28	24.59	25.87	22.27	22.58	23.24	23.55	24.83
12H	4H	22.18	22.62	23.13	23.58	24.80	21.24	21.68	22.19	22.64	23.86
	6H	22.87	23.23	23.84	24.20	25.43	21.90	22.26	22.87	23.24	24.46
	8H	23.19	23.50	24.16	24.47	25.75	22.21	22.53	23.19	23.50	24.77