

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: P1438775

Luminaire Tested: CB2-0U-085D-940-1D-UNV-STD-W-4

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1438775
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2312-242-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/31/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: CB2-0U-085D-940-1D-UNV-STD-W-4
Description: CORELITE BASIC SLOT LED LUMINAIRE
2-INCH APERTURE
DOWNLIGHT 850 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

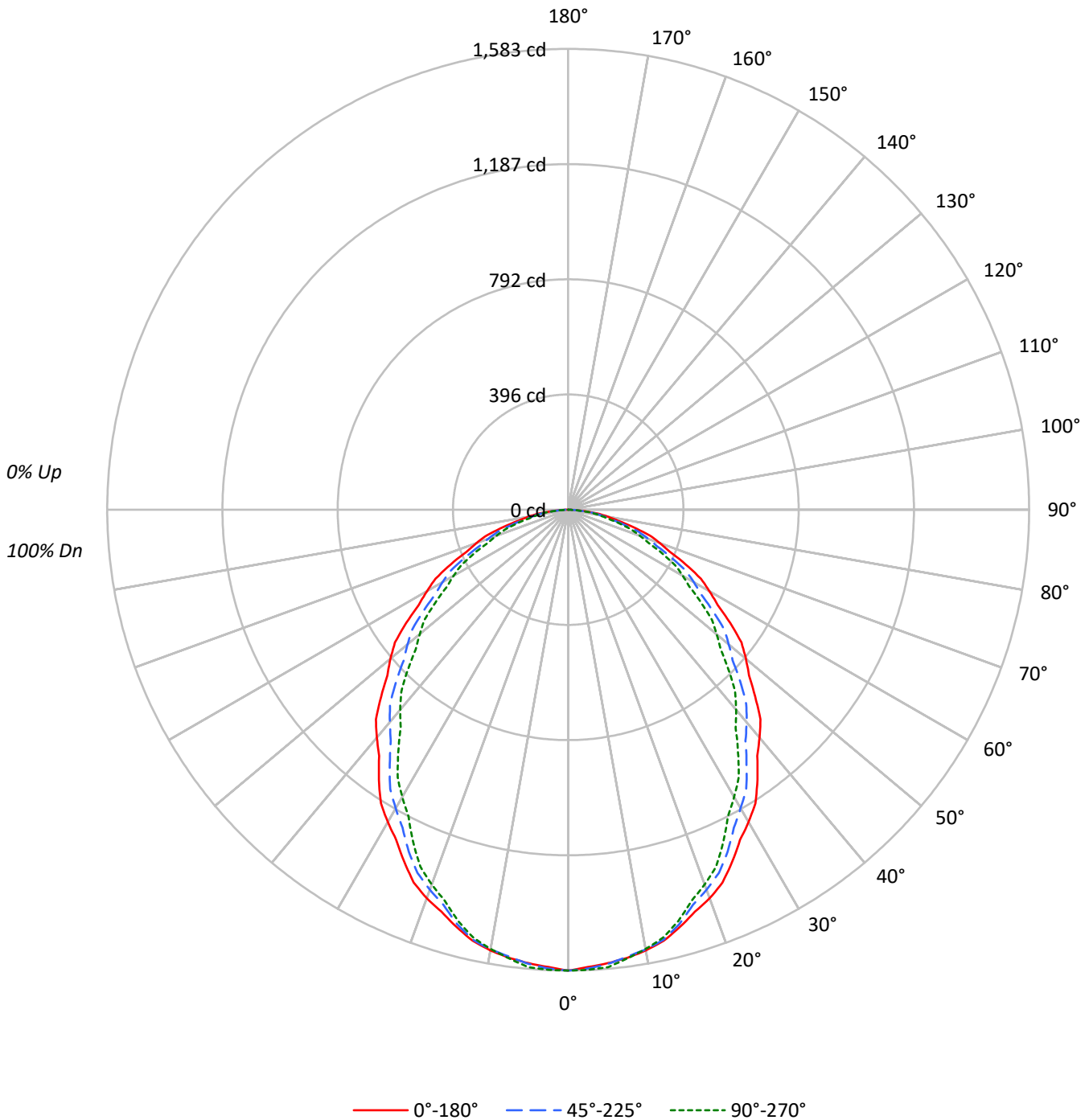
Lumens per Lamp: N/A
Luminaire Lumens: 3691.7 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.9
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					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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61					61			
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53					53			
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46					46			
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41					41			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36					36			
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33					33			
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29					29			
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27573	27573	27573
5°	27340	27381	27574
10°	27185	27120	27099
15°	26754	26579	26361
20°	26333	25749	25389
25°	25625	24903	24205
30°	24917	23818	22917
35°	24099	22706	21624
40°	23235	21664	20395
45°	22363	20573	19198
50°	21580	19510	18033
55°	20613	18405	16932
60°	19507	17355	15836
65°	18336	16184	14738
70°	17039	14875	13332
75°	15498	13459	12073
80°	13862	11796	10943
85°	10652	9692	7994

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22363 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	4.0
10°-20°	415.0	11.2
20°-30°	596.7	16.2
30°-40°	670.7	18.2
40°-50°	647.9	17.5
50°-60°	547.4	14.8
60°-70°	393.2	10.7
70°-80°	214.9	5.8
80°-90°	57.1	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1160.6	31.4
0°-40°	1831.2	49.6
0°-60°	3026.5	82.0
0°-90°	3691.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3691.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1583	1583	1583	1583	1583	
5°	1564	1585	1566	1566	1577	148
15°	1484	1497	1474	1460	1462	418
25°	1333	1335	1296	1267	1260	614
35°	1133	1120	1068	1026	1017	708
45°	908	889	835	791	779	701
55°	679	654	606	568	558	607
65°	445	428	393	365	358	441
75°	230	216	200	184	179	246
85°	53	50	48	42	40	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1583.1	1583.1	1583.1	1583.1	1583.1
2.5°	1572.5	1591.4	1577.3	1579.3	1582.1
5°	1563.7	1585.1	1566.1	1566.4	1577.1
7.5°	1552.6	1572.7	1548.9	1544.6	1554.5
10°	1537.1	1557.2	1533.4	1525.1	1532.2
12.5°	1516.7	1535.9	1513.1	1499.9	1506.0
15°	1483.7	1496.8	1474.0	1459.5	1461.9
17.5°	1447.8	1455.9	1423.1	1410.9	1408.6
20°	1420.7	1427.8	1389.2	1372.1	1369.8
22.5°	1385.8	1391.9	1351.3	1330.4	1327.1
25°	1333.4	1334.6	1295.8	1266.6	1259.5
27.5°	1278.6	1274.8	1231.8	1197.2	1187.9
30°	1238.9	1234.1	1184.3	1147.8	1139.5
32.5°	1196.2	1187.7	1137.8	1098.3	1090.0
35°	1133.4	1120.4	1067.9	1026.5	1017.0
37.5°	1066.5	1051.8	1000.3	955.2	944.5
40°	1021.9	1005.3	952.8	907.7	897.0
42.5°	977.3	958.8	905.3	860.1	848.5
45°	907.9	889.0	835.2	791.3	779.4
47.5°	842.0	817.8	765.6	722.0	710.1
50°	796.4	770.3	720.0	677.3	665.5
52.5°	749.9	722.8	674.5	633.7	621.9
55°	678.8	653.9	606.1	568.3	557.6
57.5°	608.5	584.6	540.9	504.8	494.3
60°	560.0	539.9	498.2	464.1	454.6
62.5°	513.5	495.2	455.5	424.3	414.8
65°	444.9	428.3	392.7	364.7	357.6
67.5°	378.2	361.6	332.9	307.7	299.7
70°	334.6	318.0	292.1	268.9	261.8
72.5°	292.9	275.3	254.3	233.1	227.9
75°	230.3	216.1	200.0	184.1	179.4
77.5°	175.0	161.3	149.6	138.4	137.2
80°	138.2	126.3	117.6	110.3	109.1
82.5°	103.3	94.3	88.5	83.2	82.9
85°	53.3	49.8	48.5	42.4	40.0
87.5°	15.5	15.5	13.6	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0



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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	22.37	23.95	22.74	24.27	24.58	21.28	22.85	21.64	23.17	23.48
	3H	24.07	25.49	24.45	25.82	26.18	22.85	24.27	23.23	24.60	24.96
	4H	24.73	26.07	25.13	26.41	26.79	23.46	24.79	23.85	25.14	25.52
	6H	25.16	26.40	25.58	26.77	27.16	23.86	25.10	24.27	25.47	25.86
	8H	25.33	26.51	25.76	26.90	27.30	24.02	25.20	24.45	25.59	25.99
	12H	25.43	26.56	25.86	26.94	27.37	24.11	25.24	24.54	25.62	26.05
4H	2H	22.86	24.20	23.26	24.55	24.93	21.99	23.33	22.39	23.68	24.05
	3H	24.79	25.91	25.20	26.31	26.71	23.78	24.90	24.19	25.30	25.70
	4H	25.57	26.58	26.00	26.99	27.43	24.49	25.49	24.92	25.91	26.35
	6H	26.12	27.00	26.58	27.45	27.90	25.00	25.88	25.45	26.32	26.78
	8H	26.35	27.17	26.81	27.61	28.08	25.20	26.03	25.67	26.47	26.94
	12H	26.48	27.22	26.97	27.70	28.17	25.33	26.06	25.81	26.54	27.01
8H	4H	25.78	26.60	26.24	27.04	27.51	24.81	25.64	25.27	26.08	26.54
	6H	26.45	27.13	26.94	27.62	28.09	25.45	26.13	25.94	26.62	27.09
	8H	26.74	27.35	27.25	27.86	28.35	25.73	26.34	26.24	26.85	27.33
	12H	26.95	27.49	27.46	27.98	28.54	25.91	26.45	26.42	26.94	27.50
12H	4H	25.79	26.53	26.27	27.00	27.47	24.85	25.59	25.33	26.06	26.53
	6H	26.48	27.09	26.99	27.60	28.09	25.51	26.13	26.02	26.63	27.12
	8H	26.83	27.37	27.34	27.86	28.42	25.85	26.39	26.36	26.88	27.45