

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1056961

Luminaire Tested: CB2-120D-840-1D-UNV-STD-W-8

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056961
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-18)
Test Lab: INNOVATION CENTER
Issue Date: 7/31/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: CB2-120D-840-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE
2-INCH APERTURE
DOWNLIGHT 1200 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9470.2 lumens
Efficiency: N/A
Efficacy: 107.3 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: Direct

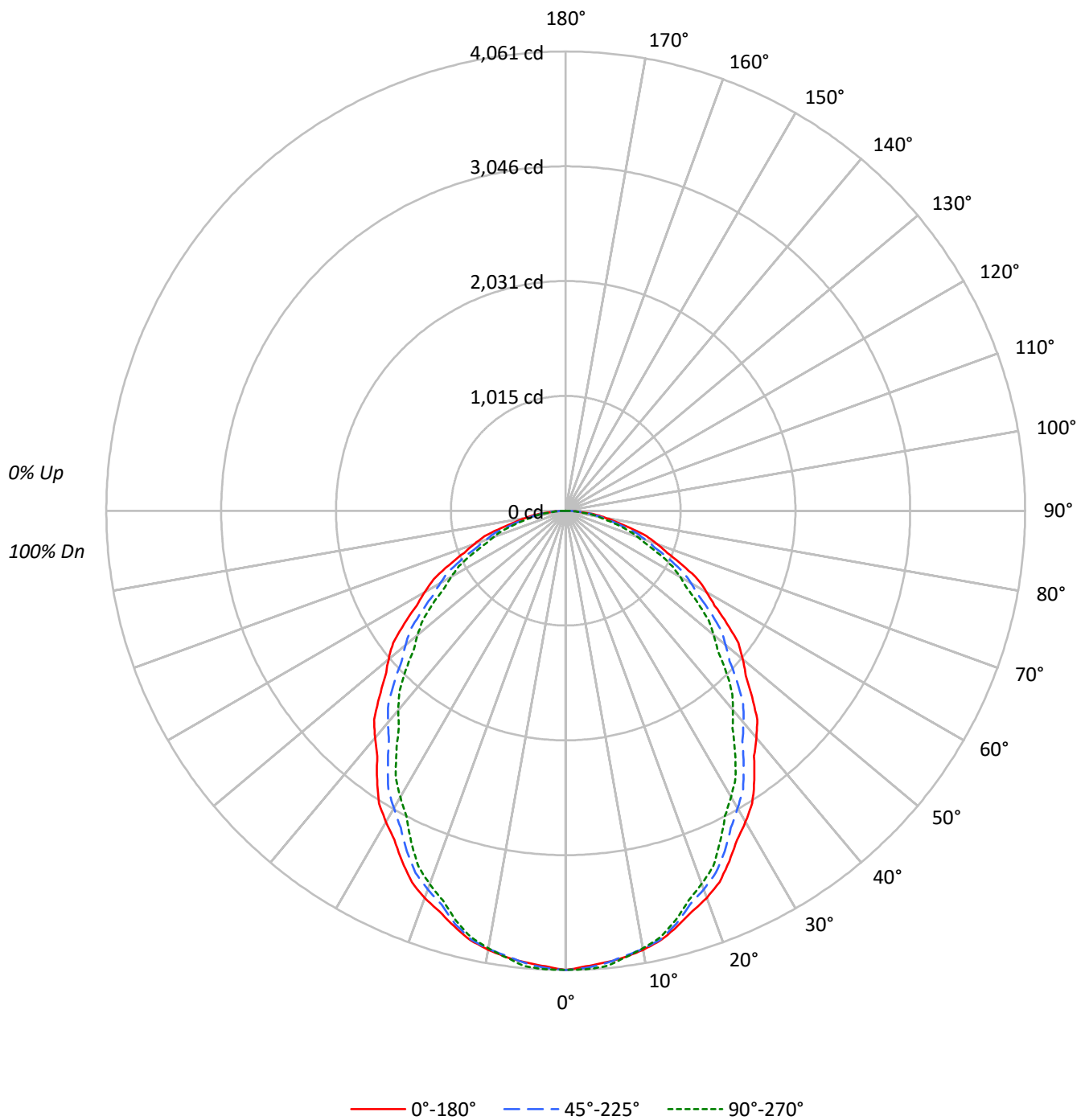
Input Watts (W): 88.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	103	99	95	98	95	92		94	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		83	79	76		80
3	91	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	73	64	58	82	71	63	57	69	62	56		66	60	56		64
5	78	65	56	50	76	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		55	48	43		53
7	67	54	45	39	65	53	45	39	51	44	39		50	43	38		49
8	62	49	41	35	61	48	41	35	47	40	35		46	39	35		45
9	58	45	37	32	57	45	37	32	44	37	32		42	36	31		41
10	55	42	34	29	54	41	34	29	40	34	29		39	33	29		39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	35368	35368	35368
5°	35067	35122	35366
10°	34868	34786	34758
15°	34316	34092	33811
20°	33776	33026	32565
25°	32868	31942	31046
30°	31958	30551	29393
35°	30911	29126	27737
40°	29801	27787	26160
45°	28685	26387	24626
50°	27679	25025	23130
55°	26440	23607	21718
60°	25022	22261	20310
65°	23516	20761	18902
70°	21854	19082	17103
75°	19879	17265	15485
80°	17779	15126	14037
85°	13669	12430	10252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 28685 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.9	4.0
10°-20°	1064.6	11.2
20°-30°	1530.7	16.2
30°-40°	1720.5	18.2
40°-50°	1662.0	17.5
50°-60°	1404.2	14.8
60°-70°	1008.6	10.7
70°-80°	551.3	5.8
80°-90°	146.4	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°	2977.2	31.4
0°-40°	4697.7	49.6
0°-60°	7763.9	82.0
0°-90°	9470.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9470.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4061	4061	4061	4061	4061	
5°	4011	4066	4018	4018	4046	381
15°	3806	3840	3781	3744	3750	1073
25°	3421	3424	3324	3249	3231	1575
35°	2908	2874	2740	2633	2609	1816
45°	2329	2280	2142	2030	2000	1799
55°	1741	1678	1555	1458	1430	1557
65°	1141	1099	1008	936	917	1132
75°	591	554	513	472	460	632
85°	137	128	124	109	103	168
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4061.2	4061.2	4061.2	4061.2	4061.2
2.5°	4033.8	4082.4	4046.2	4051.4	4058.7
5°	4011.4	4066.1	4017.6	4018.3	4045.6
7.5°	3982.8	4034.5	3973.5	3962.2	3987.8
10°	3943.0	3994.7	3933.7	3912.3	3930.6
12.5°	3890.8	3940.0	3881.4	3847.6	3863.4
15°	3806.2	3839.6	3781.3	3744.1	3750.2
17.5°	3714.1	3734.8	3650.7	3619.5	3613.4
20°	3644.5	3662.7	3563.6	3520.0	3513.9
22.5°	3554.9	3570.7	3466.6	3412.9	3404.4
25°	3420.6	3423.6	3324.2	3249.1	3230.9
27.5°	3280.0	3270.3	3160.0	3071.1	3047.4
30°	3178.0	3165.9	3038.1	2944.3	2923.0
32.5°	3068.6	3046.7	2918.7	2817.5	2796.2
35°	2907.5	2874.0	2739.6	2633.3	2609.0
37.5°	2735.8	2698.1	2566.1	2450.4	2423.0
40°	2621.4	2578.8	2444.2	2328.5	2301.1
42.5°	2507.0	2459.5	2322.3	2206.5	2176.7
45°	2329.1	2280.5	2142.5	2029.9	1999.5
47.5°	2159.9	2097.9	1964.0	1852.0	1821.6
50°	2043.0	1976.1	1847.1	1737.6	1707.2
52.5°	1923.6	1854.3	1730.2	1625.6	1595.2
55°	1741.4	1677.5	1554.8	1457.8	1430.4
57.5°	1561.0	1499.6	1387.5	1294.9	1268.1
60°	1436.6	1385.0	1278.1	1190.4	1166.1
62.5°	1317.2	1270.4	1168.6	1088.4	1064.1
65°	1141.2	1098.7	1007.5	935.6	917.3
67.5°	970.2	927.6	853.9	789.4	768.7
70°	858.3	815.7	749.4	689.9	671.7
72.5°	751.3	706.3	652.4	598.0	584.6
75°	590.8	554.3	513.1	472.4	460.2
77.5°	449.0	413.8	383.7	355.0	352.0
80°	354.5	324.1	301.6	282.9	279.9
82.5°	264.9	241.8	227.0	213.3	212.7
85°	136.8	127.7	124.4	108.7	102.6
87.5°	39.8	39.8	34.8	29.9	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)