

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P189617

Luminaire Tested: **BRG-WD-4L40-LD2-UNV-14-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189617  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34884)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: BRG-WD-4L40-LD2-UNV-14-STD  
Description: BRIDGE 1x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY  
LIGHT LEVEL 4 (1100 mA)  
Light Source: (308) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

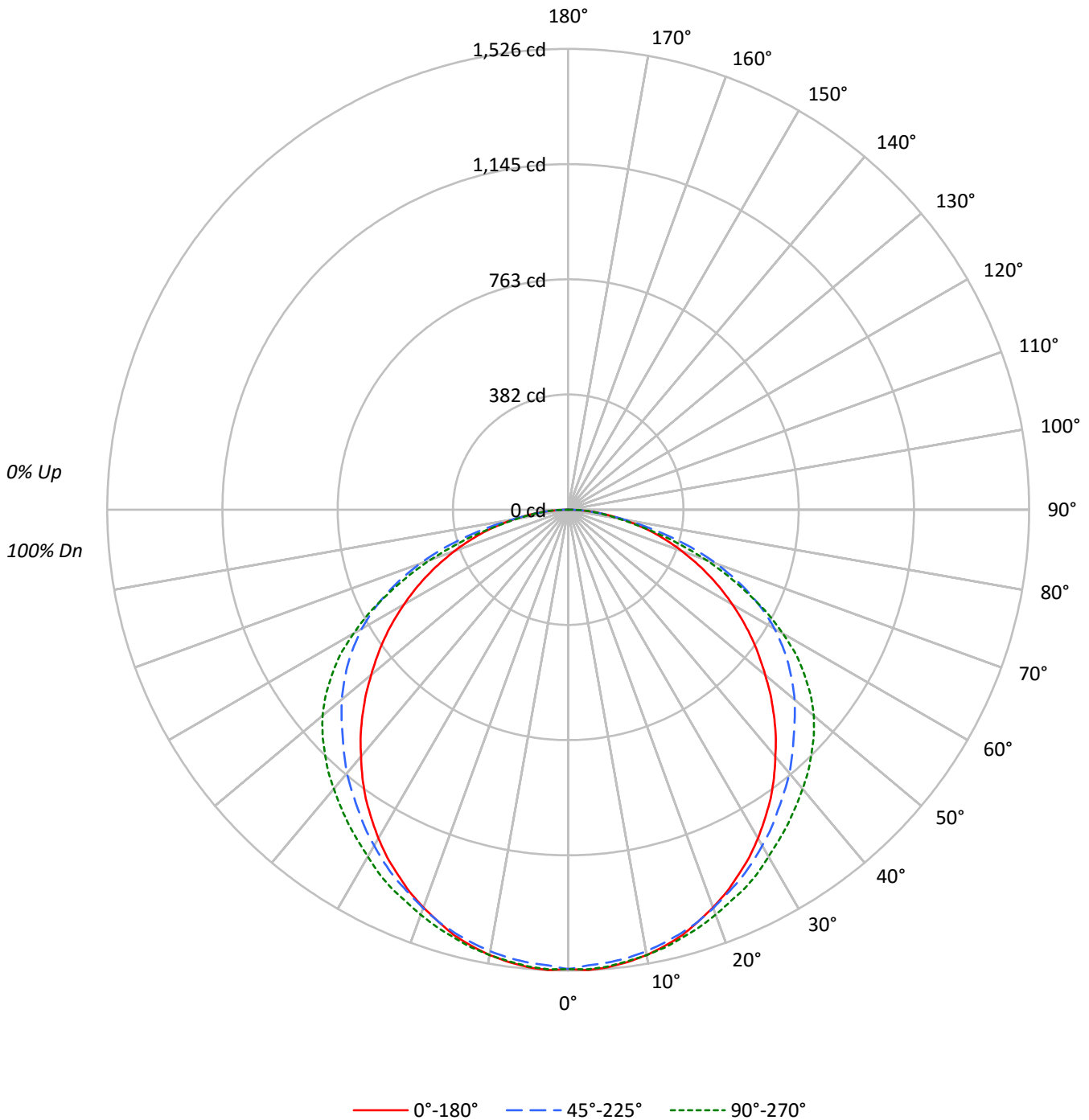
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4613.5 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 50.2  
Input Voltage (V): NR  
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: 25 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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	50	48
5	75	61	52	45	73	60	52	45	58	51	45		56	49	44		54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34		46	39	34		45	39	34	32
8	59	46	37	31	58	45	37	31	43	36	31		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

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

	0°	45°	90°
0°	4659	4659	4659
5°	4677	4629	4669
10°	4658	4618	4658
15°	4626	4601	4650
20°	4569	4577	4653
25°	4509	4562	4675
30°	4443	4544	4691
35°	4367	4533	4746
40°	4266	4556	4826
45°	4171	4576	4936
50°	4057	4663	5059
55°	3964	4754	5101
60°	3848	4834	5024
65°	3725	4835	4759
70°	3580	4673	4347
75°	3441	4178	3686
80°	3205	3343	2976
85°	2921	2738	2829



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.9	3.1
10°-20°	411.7	8.9
20°-30°	624.9	13.5
30°-40°	761.5	16.5
40°-50°	815.2	17.7
50°-60°	777.3	16.8
60°-70°	622.1	13.5
70°-80°	360.3	7.8
80°-90°	96.7	2.1
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°	1180.5	25.6
0°-40°	1942.0	42.1
0°-60°	3534.4	76.6
0°-90°	4613.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4613.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1521	1521	1521	1521	1521	
5°	1521	1518	1505	1518	1518	144
15°	1459	1456	1451	1466	1466	411
25°	1334	1339	1350	1376	1383	615
35°	1168	1178	1212	1254	1269	730
45°	963	994	1056	1121	1139	743
55°	742	802	890	945	955	663
65°	514	605	667	664	657	509
75°	291	387	353	322	311	306
85°	83	88	78	80	80	93
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1520.9	1520.9	1520.9	1520.9	1520.9
2.5°	1526.1	1523.5	1510.5	1520.9	1523.5
5°	1520.9	1518.3	1505.3	1518.3	1518.3
7.5°	1510.5	1507.9	1497.5	1510.5	1507.9
10°	1497.5	1494.9	1484.6	1497.5	1497.5
12.5°	1479.4	1476.8	1469.0	1484.6	1484.6
15°	1458.6	1456.0	1450.8	1466.4	1466.4
17.5°	1430.1	1430.1	1430.1	1445.6	1448.2
20°	1401.5	1404.1	1404.1	1424.9	1427.5
22.5°	1370.4	1373.0	1375.6	1401.5	1404.1
25°	1334.0	1339.2	1349.6	1375.6	1383.3
27.5°	1297.7	1302.9	1318.5	1347.0	1357.4
30°	1256.2	1261.4	1284.7	1315.9	1326.2
32.5°	1212.1	1222.4	1251.0	1284.7	1297.7
35°	1167.9	1178.3	1212.1	1253.6	1269.1
37.5°	1118.6	1134.2	1175.7	1222.4	1238.0
40°	1066.7	1090.1	1139.4	1191.3	1206.9
42.5°	1017.4	1040.8	1097.9	1155.0	1175.7
45°	962.9	994.0	1056.3	1121.2	1139.4
47.5°	908.4	944.7	1017.4	1082.3	1103.0
50°	851.3	898.0	978.5	1040.8	1061.5
52.5°	796.8	848.7	934.3	994.0	1012.2
55°	742.3	802.0	890.2	944.7	955.1
57.5°	685.2	752.7	840.9	887.6	895.4
60°	628.1	703.4	789.0	820.1	820.1
62.5°	571.0	654.0	731.9	747.5	744.9
65°	513.9	604.7	667.0	664.4	656.6
67.5°	456.8	555.4	596.9	578.8	571.0
70°	399.7	500.9	521.7	493.1	485.3
72.5°	345.2	449.0	441.2	407.5	394.5
75°	290.7	386.7	353.0	321.8	311.4
77.5°	233.6	324.4	269.9	238.8	228.4
80°	181.7	249.2	189.5	171.3	168.7
82.5°	129.8	163.5	124.6	122.0	122.0
85°	83.1	88.2	77.9	80.5	80.5
87.5°	36.3	38.9	41.5	44.1	44.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)