

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: P189692

Luminaire Tested: **BRG-WD-4L40-LD2-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189692  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34875)  
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-24-STD  
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY  
LIGHT LEVEL 4 (1260 mA)  
Light Source: (308) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

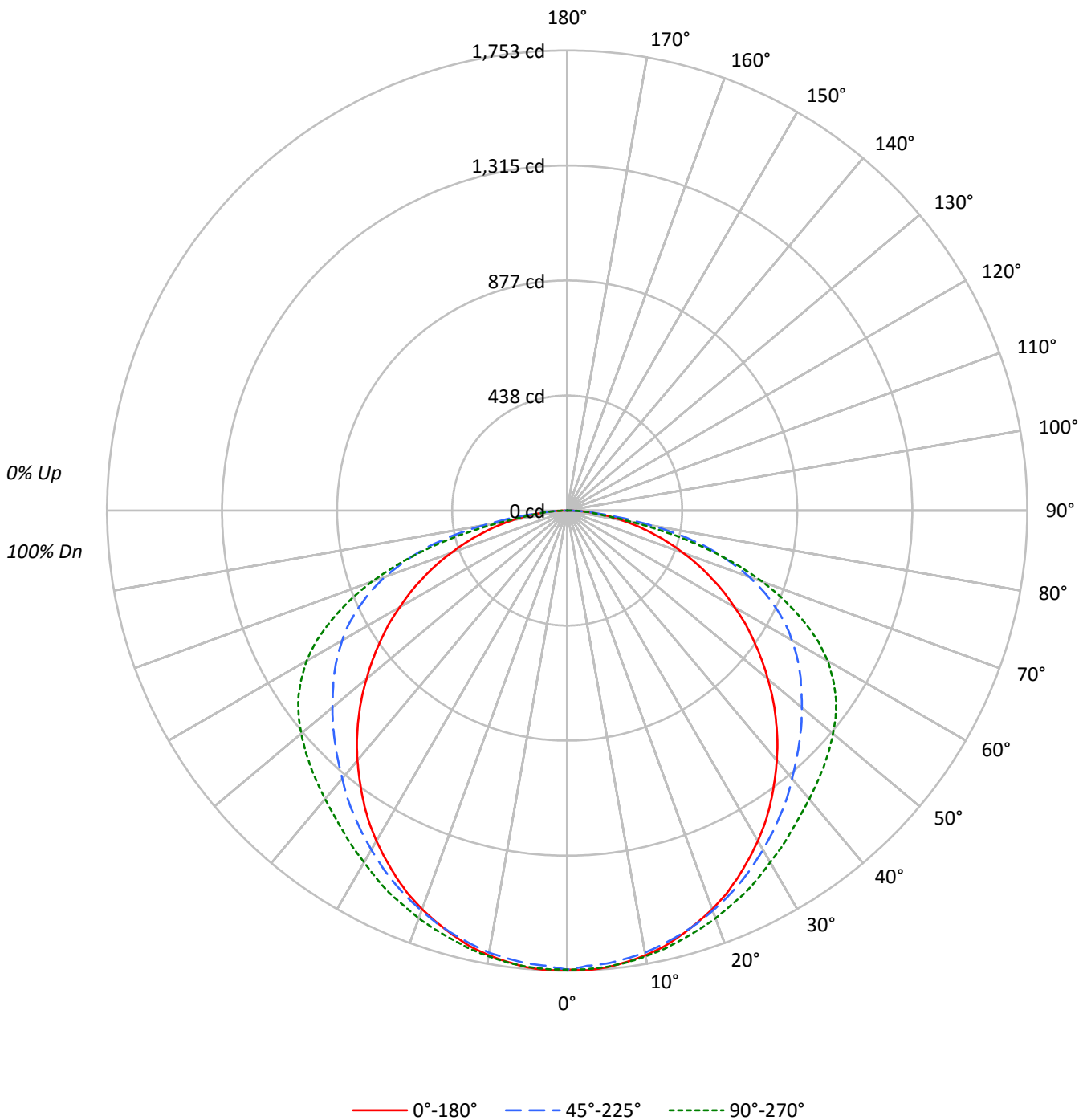
Lumens per Lamp: N/A  
Luminaire Lumens: 5679.1 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.43  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 58.5  
Input Voltage (V): NR  
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: 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	98	94	105	100	96	92	96	92	89	92	89	87	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	79	75	70	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	59	69	63	58	67	62	57	55
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	46
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40
6	68	54	44	38	66	53	44	38	51	43	37	49	42	37	48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	22

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

	0°	45°	90°
0°	2679	2679	2679
5°	2686	2664	2682
10°	2675	2659	2682
15°	2656	2650	2682
20°	2634	2644	2694
25°	2604	2642	2714
30°	2570	2638	2735
35°	2530	2648	2785
40°	2485	2664	2868
45°	2436	2710	2992
50°	2378	2781	3151
55°	2321	2893	3340
60°	2256	3032	3513
65°	2189	3180	3594
70°	2102	3308	3545
75°	1993	3333	3176
80°	1854	2861	2160
85°	1720	1792	1578



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.4	2.9
10°-20°	474.4	8.4
20°-30°	723.5	12.7
30°-40°	889.2	15.7
40°-50°	967.8	17.0
50°-60°	959.1	16.9
60°-70°	832.1	14.7
70°-80°	533.2	9.4
80°-90°	134.3	2.4
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°	1363.3	24.0
0°-40°	2252.4	39.7
0°-60°	4179.4	73.6
0°-90°	5679.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5679.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1749	1749	1749	1749	1749	
5°	1747	1743	1732	1743	1745	166
15°	1675	1675	1671	1690	1692	473
25°	1541	1547	1563	1594	1606	710
35°	1353	1369	1416	1469	1490	846
45°	1124	1165	1251	1343	1382	867
55°	869	949	1084	1204	1251	778
65°	604	733	877	969	992	599
75°	337	500	563	553	537	358
85°	98	151	102	90	90	110
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1748.8	1748.8	1748.8	1748.8	1748.8
2.5°	1752.8	1748.8	1736.5	1748.8	1748.8
5°	1746.7	1742.6	1732.4	1742.6	1744.7
7.5°	1734.5	1732.4	1722.2	1734.5	1736.5
10°	1720.2	1716.1	1710.0	1722.2	1724.3
12.5°	1701.8	1697.7	1691.6	1708.0	1710.0
15°	1675.3	1675.3	1671.2	1689.6	1691.6
17.5°	1646.7	1648.8	1648.8	1669.2	1673.3
20°	1616.1	1618.2	1622.2	1646.7	1652.9
22.5°	1581.4	1583.5	1593.7	1622.2	1628.4
25°	1540.6	1546.7	1563.1	1593.7	1605.9
27.5°	1497.8	1505.9	1528.4	1563.1	1577.4
30°	1452.9	1463.1	1491.7	1534.5	1546.7
32.5°	1405.9	1418.2	1454.9	1501.9	1520.2
35°	1352.9	1369.2	1416.2	1469.2	1489.6
37.5°	1297.8	1320.2	1377.4	1438.6	1461.0
40°	1242.7	1269.2	1332.5	1405.9	1434.5
42.5°	1185.6	1218.2	1291.7	1373.3	1408.0
45°	1124.4	1165.2	1250.9	1342.7	1381.5
47.5°	1063.1	1110.1	1210.1	1310.0	1352.9
50°	997.8	1057.0	1167.2	1275.4	1322.3
52.5°	934.6	999.9	1124.4	1240.7	1289.6
55°	869.3	948.9	1083.5	1203.9	1250.9
57.5°	806.0	893.8	1038.6	1157.0	1201.9
60°	736.6	840.7	989.7	1103.9	1146.8
62.5°	673.4	787.7	938.7	1042.7	1077.4
65°	604.0	732.6	877.4	969.3	991.7
67.5°	538.7	679.5	812.1	879.5	897.8
70°	469.3	626.5	738.7	787.7	791.7
72.5°	404.0	565.2	653.0	671.3	669.3
75°	336.7	499.9	563.2	553.0	536.7
77.5°	275.5	430.6	453.0	414.2	395.9
80°	210.2	353.0	324.4	263.2	244.9
82.5°	153.0	263.2	195.9	151.0	140.8
85°	97.9	151.0	102.0	89.8	89.8
87.5°	46.9	57.1	46.9	46.9	46.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)