

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: P189677

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189677  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34874)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: BRG-WG-4L40-LD2-UNV-24-STD  
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND  
RECTANGULAR PERF INLAY  
LIGHT LEVEL 4 (1260 mA)  
Light Source: (308) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

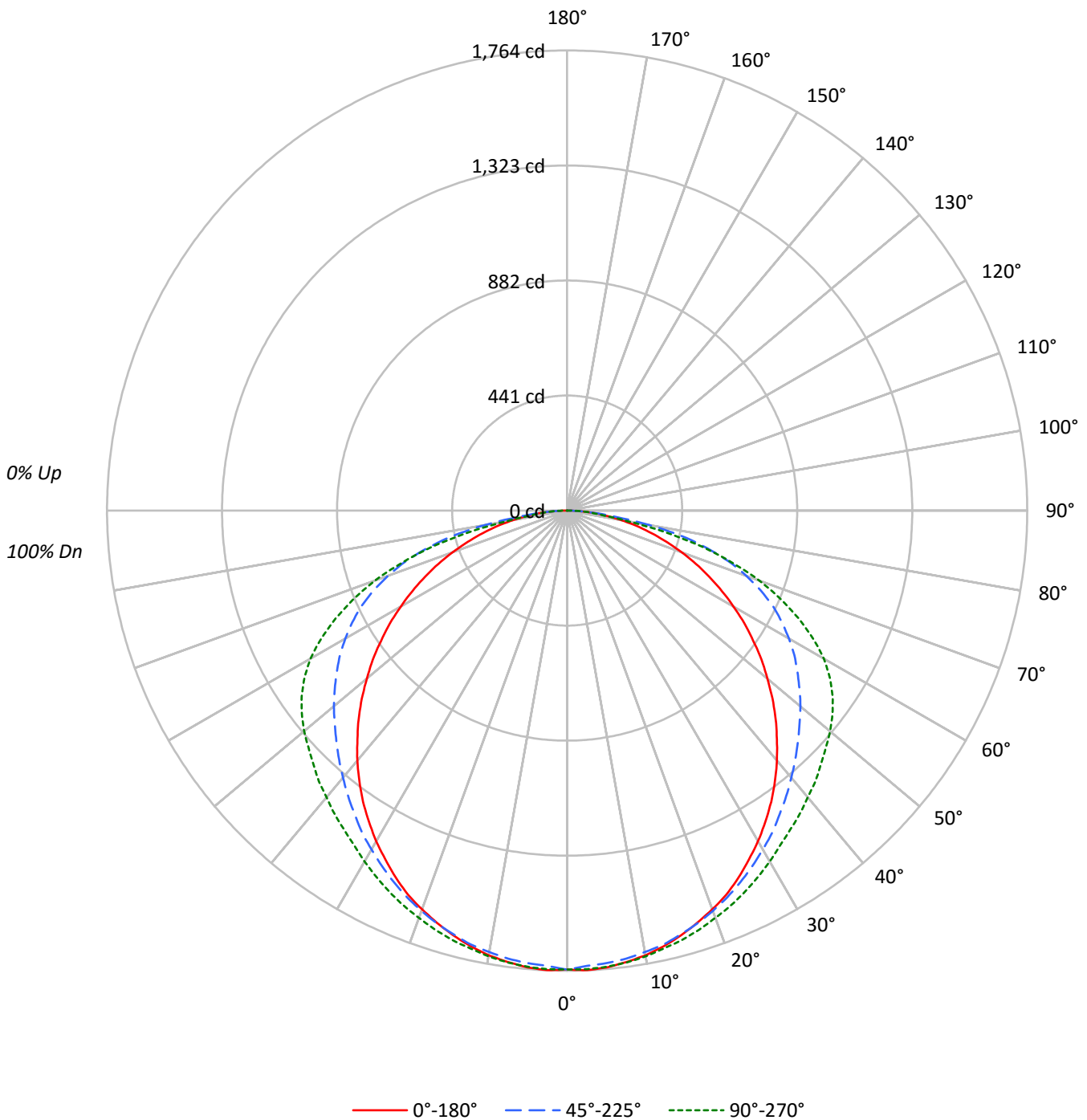
Lumens per Lamp: N/A  
Luminaire Lumens: 5675.0 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.42  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

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	93	89	92	89	87	88	86	84	82
2	97	88	81	75	95	87	80	74	83	77	72	80	75	71	76	73	69	67
3	88	77	68	61	86	75	67	61	72	65	60	69	64	59	67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	42	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33	45	38	33	43	37	32	30
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	55	41	32	26	53	40	32	26	39	31	26	38	31	26	37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23	22

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

	0°	45°	90°
0°	2695	2695	2695
5°	2702	2677	2699
10°	2692	2673	2698
15°	2673	2667	2702
20°	2652	2662	2708
25°	2625	2656	2725
30°	2588	2653	2747
35°	2549	2656	2790
40°	2502	2673	2869
45°	2449	2710	2980
50°	2388	2782	3137
55°	2327	2878	3319
60°	2257	3008	3483
65°	2175	3159	3551
70°	2093	3272	3510
75°	1981	3286	3165
80°	1854	2845	2089
85°	1685	1757	1578



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.4	2.9
10°-20°	477.4	8.4
20°-30°	727.8	12.8
30°-40°	892.8	15.7
40°-50°	968.2	17.1
50°-60°	955.7	16.8
60°-70°	824.9	14.5
70°-80°	528.8	9.3
80°-90°	132.9	2.3
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°	1371.6	24.2
0°-40°	2264.4	39.9
0°-60°	4188.4	73.8
0°-90°	5675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5675.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1760	1760	1760	1760	1760	
5°	1757	1753	1741	1753	1755	167
15°	1686	1686	1682	1700	1704	476
25°	1553	1557	1572	1602	1612	715
35°	1364	1378	1421	1474	1492	852
45°	1131	1168	1251	1339	1376	872
55°	872	947	1078	1194	1243	780
65°	600	729	872	957	980	595
75°	335	500	555	547	535	355
85°	96	149	100	92	90	108
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1759.5	1759.5	1759.5	1759.5	1759.5
2.5°	1763.5	1759.5	1747.2	1759.5	1759.5
5°	1757.4	1753.3	1741.1	1753.3	1755.4
7.5°	1745.2	1743.1	1732.9	1745.2	1747.2
10°	1730.9	1728.8	1718.6	1732.9	1735.0
12.5°	1710.5	1708.4	1704.3	1718.6	1718.6
15°	1686.0	1686.0	1681.9	1700.3	1704.3
17.5°	1657.4	1659.4	1659.4	1679.8	1683.9
20°	1626.8	1628.8	1632.9	1655.4	1661.5
22.5°	1594.1	1594.1	1604.3	1630.9	1639.0
25°	1553.3	1557.4	1571.7	1602.3	1612.5
27.5°	1508.4	1516.6	1537.0	1571.7	1583.9
30°	1463.5	1473.7	1500.2	1539.0	1553.3
32.5°	1414.5	1426.7	1463.5	1506.4	1520.6
35°	1363.5	1377.8	1420.6	1473.7	1492.1
37.5°	1308.4	1326.7	1379.8	1441.0	1465.5
40°	1251.2	1275.7	1336.9	1406.3	1434.9
42.5°	1190.0	1222.6	1294.1	1373.7	1408.4
45°	1130.8	1167.5	1251.2	1339.0	1375.7
47.5°	1067.5	1114.5	1208.3	1304.3	1345.1
50°	1002.2	1055.3	1167.5	1271.6	1316.5
52.5°	938.9	1002.2	1122.6	1234.9	1281.8
55°	871.6	947.1	1077.7	1194.1	1243.0
57.5°	806.2	894.0	1032.8	1149.2	1194.1
60°	736.8	836.9	981.8	1096.1	1136.9
62.5°	669.5	785.8	928.7	1030.8	1063.4
65°	600.1	728.7	871.6	957.3	979.7
67.5°	534.8	675.6	804.2	871.6	885.9
70°	467.4	620.5	730.7	779.7	783.8
72.5°	400.1	559.3	651.1	663.4	663.4
75°	334.7	500.1	555.2	547.0	534.8
77.5°	273.5	426.6	449.0	414.3	387.8
80°	210.2	351.1	322.5	261.3	236.8
82.5°	151.0	261.3	189.8	149.0	140.8
85°	95.9	149.0	100.0	91.9	89.8
87.5°	44.9	55.1	44.9	49.0	49.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)