

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: P189587

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189587  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34878)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: BRG-WS-4L40-LD2-UNV-14-STD  
Description: BRIDGE 1x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 4 (1100 mA)  
Light Source: (308) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

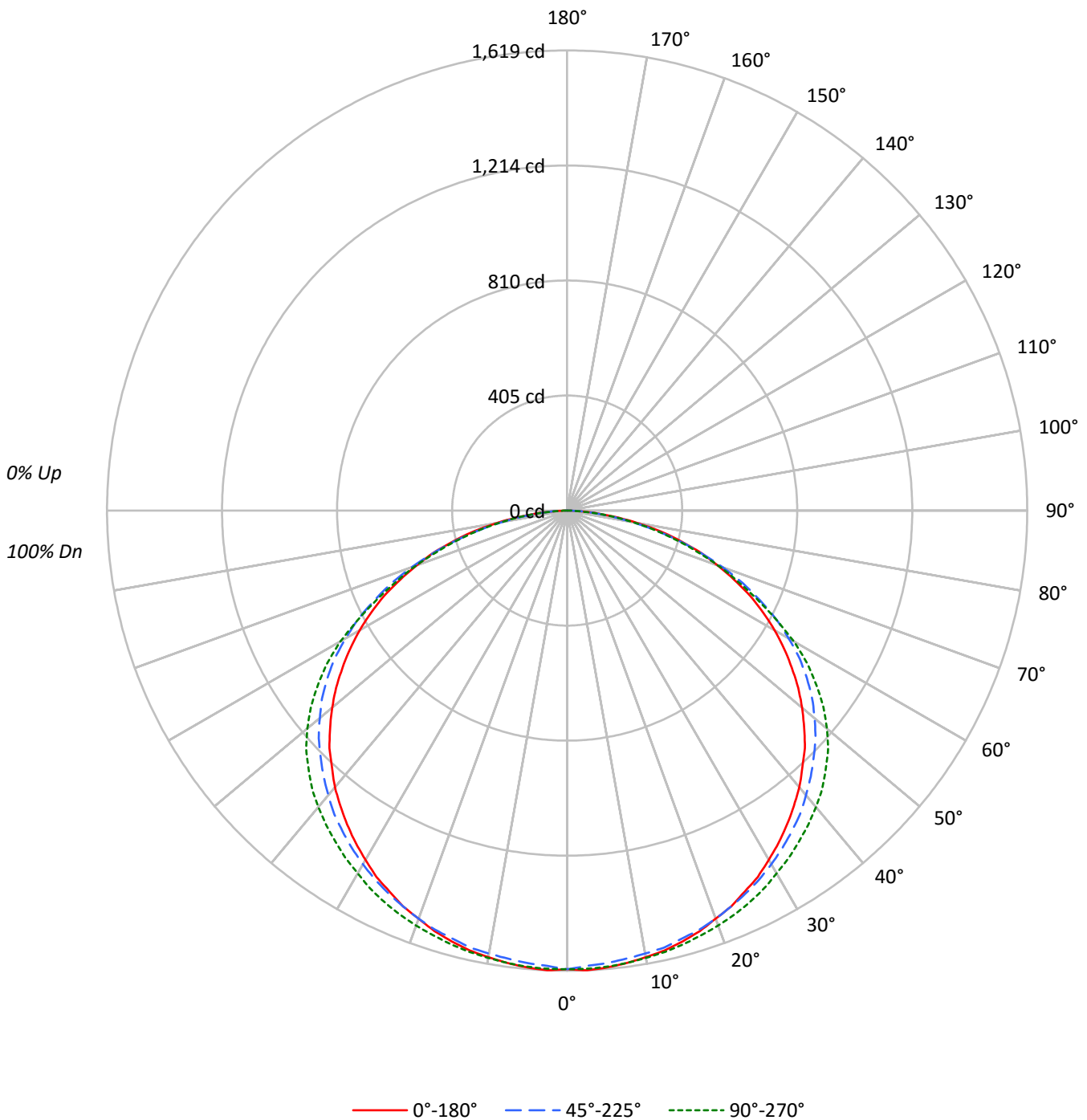
Lumens per Lamp: N/A  
Luminaire Lumens: 5288.1 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.36 / 1.47  
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')  
CIE Type: Direct

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	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	47
5	74	61	51	45	72	60	51	44	58	50	44		56	49	43		54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	35	30		40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27		38	31	27		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	29	24		34	28	24	22

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

	0°	45°	90°
0°	4943	4943	4943
5°	4962	4914	4954
10°	4963	4922	4971
15°	4977	4944	5010
20°	4981	4981	5066
25°	4998	5024	5138
30°	5020	5084	5212
35°	5045	5151	5316
40°	5083	5228	5446
45°	5125	5316	5574
50°	5143	5415	5687
55°	5154	5500	5722
60°	5165	5515	5643
65°	5152	5434	5341
70°	5042	5205	5065
75°	4882	4759	4667
80°	4392	4073	4119
85°	3465	3100	2917



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.0	2.9
10°-20°	443.8	8.4
20°-30°	690.0	13.0
30°-40°	866.1	16.4
40°-50°	950.1	18.0
50°-60°	914.2	17.3
60°-70°	729.1	13.8
70°-80°	432.5	8.2
80°-90°	109.3	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°	1286.8	24.3
0°-40°	2152.8	40.7
0°-60°	4017.2	76.0
0°-90°	5288.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5288.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1614	1614	1614	1614	1614	
5°	1614	1611	1598	1611	1611	153
15°	1570	1567	1559	1577	1580	443
25°	1479	1481	1486	1512	1520	683
35°	1349	1354	1378	1411	1422	845
45°	1183	1193	1227	1271	1287	911
55°	965	988	1030	1061	1071	863
65°	711	739	750	739	737	700
75°	412	444	402	394	394	434
85°	99	93	88	83	83	116
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1613.6	1613.6	1613.6	1613.6	1613.6
2.5°	1618.8	1616.2	1603.2	1616.2	1613.6
5°	1613.6	1611.0	1598.1	1611.0	1611.0
7.5°	1605.8	1603.2	1590.3	1605.8	1605.8
10°	1595.5	1592.9	1582.5	1598.1	1598.1
12.5°	1585.1	1582.5	1574.7	1590.3	1590.3
15°	1569.5	1566.9	1559.1	1577.3	1579.9
17.5°	1551.4	1548.8	1546.2	1566.9	1566.9
20°	1528.0	1528.0	1528.0	1551.4	1554.0
22.5°	1507.3	1507.3	1507.3	1533.2	1538.4
25°	1478.7	1481.3	1486.5	1512.4	1520.2
27.5°	1452.8	1452.8	1463.2	1491.7	1499.5
30°	1419.1	1424.2	1437.2	1465.7	1473.5
32.5°	1385.3	1393.1	1408.7	1439.8	1450.2
35°	1349.0	1354.2	1377.5	1411.3	1421.6
37.5°	1310.1	1317.9	1346.4	1382.7	1393.1
40°	1271.2	1279.0	1307.5	1349.0	1362.0
42.5°	1224.5	1237.5	1268.6	1310.1	1328.3
45°	1183.0	1193.4	1227.1	1271.2	1286.7
47.5°	1131.1	1146.7	1185.6	1227.1	1245.2
50°	1079.2	1097.4	1136.3	1180.4	1193.4
52.5°	1024.7	1045.5	1087.0	1123.3	1136.3
55°	965.1	988.4	1029.9	1061.0	1071.4
57.5°	905.4	933.9	970.2	991.0	1001.4
60°	843.1	869.1	900.2	915.8	921.0
62.5°	778.3	804.2	830.2	827.6	827.6
65°	710.8	739.4	749.7	739.4	736.8
67.5°	635.6	669.3	669.3	651.2	648.6
70°	563.0	596.7	581.1	563.0	565.5
72.5°	492.9	524.0	490.3	474.7	477.3
75°	412.5	443.6	402.1	394.3	394.3
77.5°	334.7	355.4	316.5	311.3	313.9
80°	249.0	267.2	230.9	228.3	233.5
82.5°	168.6	173.8	153.1	155.7	160.8
85°	98.6	93.4	88.2	83.0	83.0
87.5°	36.3	36.3	28.5	25.9	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)