

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: P189602

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34883)
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-14-STD
Description: BRIDGE 1x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND
RECTANGULAR PERF INLAY
LIGHT LEVEL 4 (1100 mA)
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

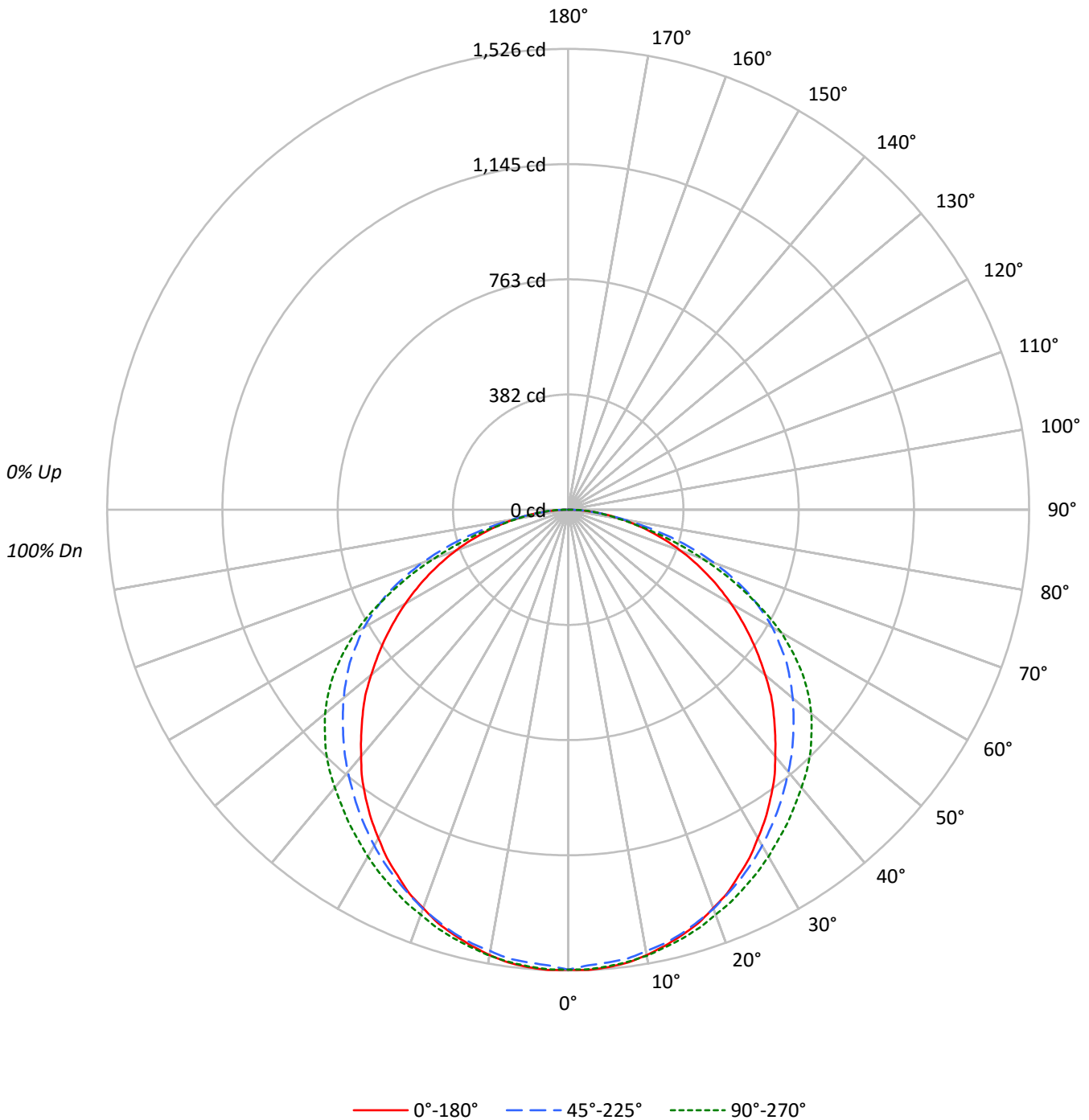
Lumens per Lamp: N/A
Luminaire Lumens: 4587.5 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.4
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P189602
CATALOG NUMBER: BRG-WG-4L40-LD2-UNV-14-STD

Luminous Intensity Polar Plot





TEST NUMBER: P189602

CATALOG NUMBER: BRG-WG-4L40-LD2-UNV-14-STD

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	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	53	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	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4666	4666	4666
5°	4675	4628	4667
10°	4657	4617	4665
15°	4624	4608	4657
20°	4576	4584	4652
25°	4517	4561	4666
30°	4442	4543	4690
35°	4366	4531	4735
40°	4264	4534	4804
45°	4170	4564	4912
50°	4056	4625	5008
55°	3935	4711	5058
60°	3815	4785	4991
65°	3686	4796	4683
70°	3532	4602	4229
75°	3347	4146	3593
80°	3112	3341	2930
85°	2826	2734	2917



TEST NUMBER: P189602

CATALOG NUMBER: BRG-WG-4L40-LD2-UNV-14-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.0	3.1
10°-20°	412.1	9.0
20°-30°	625.1	13.6
30°-40°	760.8	16.6
40°-50°	811.6	17.7
50°-60°	769.8	16.8
60°-70°	614.5	13.4
70°-80°	354.0	7.7
80°-90°	95.5	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°	1181.2	25.7
0°-40°	1942.1	42.3
0°-60°	3523.4	76.8
0°-90°	4587.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4587.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1523	1523	1523	1523	1523	
5°	1520	1518	1505	1518	1518	144
15°	1458	1458	1453	1469	1469	411
25°	1336	1342	1349	1375	1380	616
35°	1168	1181	1212	1253	1266	730
45°	963	991	1054	1113	1134	743
55°	737	794	882	934	947	659
65°	509	599	662	656	646	503
75°	283	381	350	317	304	300
85°	80	86	78	80	83	90
90°	0	0	0	0	0	



TEST NUMBER: P189602

CATALOG NUMBER: BRG-WG-4L40-LD2-UNV-14-STD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1523.1	1523.1	1523.1	1523.1	1523.1
2.5°	1525.7	1523.1	1510.1	1523.1	1523.1
5°	1520.5	1517.9	1505.0	1517.9	1517.9
7.5°	1512.7	1510.1	1499.8	1510.1	1510.1
10°	1497.2	1494.6	1484.2	1499.8	1499.8
12.5°	1479.0	1479.0	1471.2	1484.2	1484.2
15°	1458.2	1458.2	1453.1	1468.6	1468.6
17.5°	1434.9	1432.3	1429.7	1447.9	1450.5
20°	1403.8	1403.8	1406.3	1424.5	1427.1
22.5°	1375.2	1375.2	1377.8	1401.2	1406.3
25°	1336.3	1341.5	1349.3	1375.2	1380.4
27.5°	1300.0	1302.6	1318.1	1346.7	1354.5
30°	1255.9	1266.2	1284.4	1315.5	1325.9
32.5°	1214.3	1224.7	1248.1	1284.4	1294.8
35°	1167.6	1180.6	1211.7	1253.3	1266.2
37.5°	1120.9	1133.9	1172.8	1219.5	1232.5
40°	1066.4	1089.8	1133.9	1183.2	1201.4
42.5°	1014.5	1040.5	1095.0	1149.5	1170.2
45°	962.6	991.2	1053.5	1113.1	1133.9
47.5°	910.8	941.9	1011.9	1074.2	1092.4
50°	851.1	892.6	970.4	1030.1	1050.9
52.5°	794.0	843.3	926.3	986.0	1001.6
55°	736.9	794.0	882.2	934.1	947.1
57.5°	679.8	744.7	830.3	874.4	882.2
60°	622.7	695.4	781.0	809.6	814.7
62.5°	565.7	648.7	721.3	736.9	734.3
65°	508.6	599.4	661.7	656.5	646.1
67.5°	451.5	547.5	589.0	570.8	563.1
70°	394.4	495.6	513.8	485.2	472.2
72.5°	339.9	441.1	433.3	399.6	386.6
75°	282.8	381.4	350.3	316.6	303.6
77.5°	230.9	316.6	264.7	233.5	225.7
80°	176.4	241.3	189.4	168.7	166.1
82.5°	127.1	160.9	124.5	122.0	122.0
85°	80.4	85.6	77.8	80.4	83.0
87.5°	36.3	38.9	41.5	41.5	44.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)