

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: P189592

Luminaire Tested: **BRG-WG-4L30-LD2-UNV-14-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189592
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-4L30-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

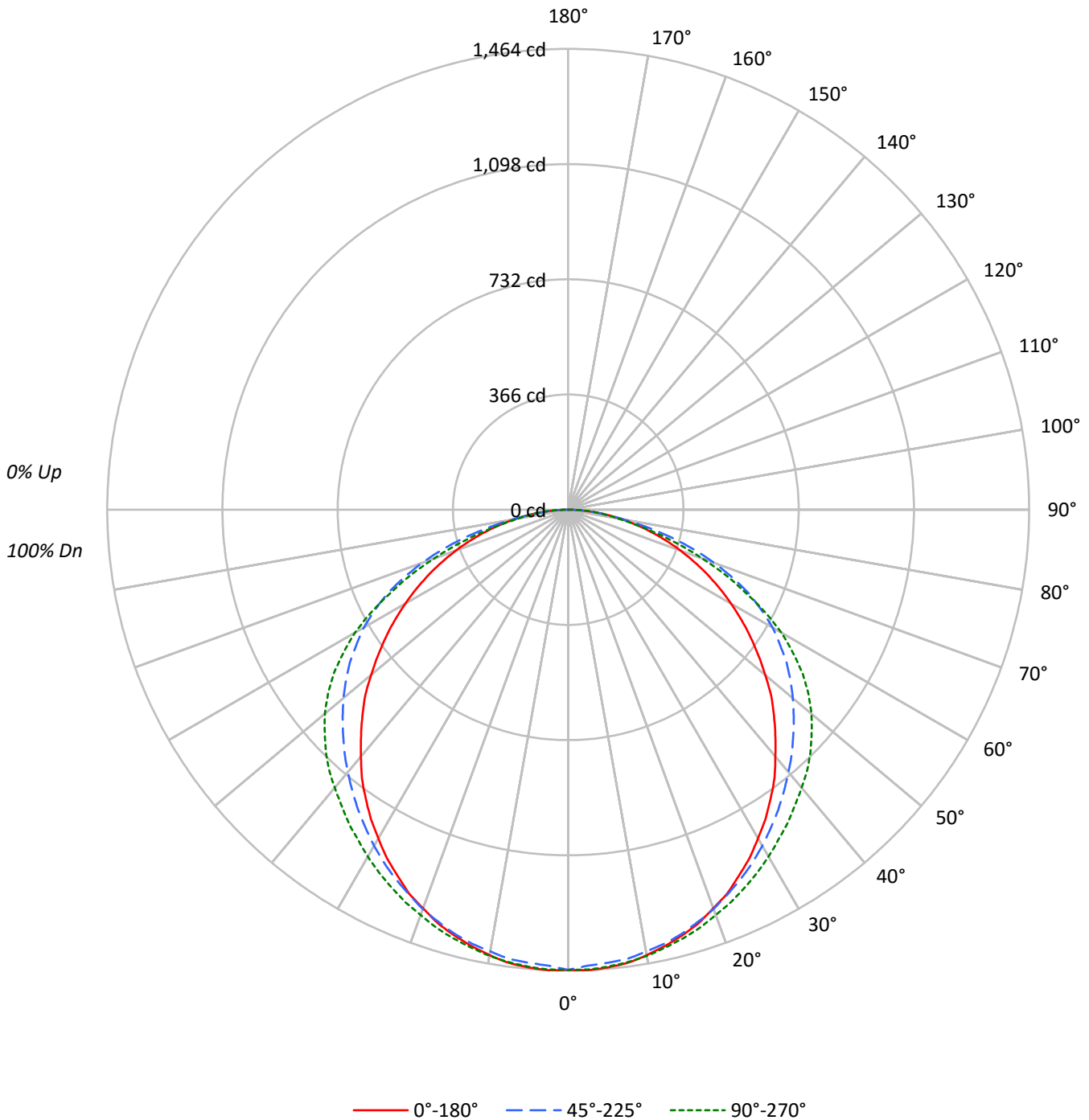
Lumens per Lamp: N/A
Luminaire Lumens: 4403.5 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.4
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')
CIE Type: Direct

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: P189592
CATALOG NUMBER: BRG-WG-4L30-LD2-UNV-14-STD

Luminous Intensity Polar Plot





TEST NUMBER: P189592

CATALOG NUMBER: BRG-WG-4L30-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°	4478	4478	4478
5°	4488	4442	4480
10°	4470	4432	4478
15°	4439	4423	4471
20°	4393	4400	4466
25°	4335	4378	4478
30°	4264	4361	4502
35°	4191	4349	4545
40°	4094	4352	4611
45°	4003	4381	4715
50°	3893	4439	4807
55°	3778	4522	4855
60°	3662	4593	4792
65°	3539	4603	4495
70°	3391	4417	4060
75°	3213	3979	3449
80°	2988	3207	2812
85°	2713	2625	2801



TEST NUMBER: P189592

CATALOG NUMBER: BRG-WG-4L30-LD2-UNV-14-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.2	3.1
10°-20°	395.5	9.0
20°-30°	600.1	13.6
30°-40°	730.3	16.6
40°-50°	779.0	17.7
50°-60°	738.9	16.8
60°-70°	589.9	13.4
70°-80°	339.8	7.7
80°-90°	91.7	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°	1133.9	25.7
0°-40°	1864.2	42.3
0°-60°	3382.1	76.8
0°-90°	4403.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4403.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1462	1462	1462	1462	1462	
5°	1460	1457	1445	1457	1457	139
15°	1400	1400	1395	1410	1410	395
25°	1283	1288	1295	1320	1325	591
35°	1121	1133	1163	1203	1215	701
45°	924	951	1011	1068	1088	713
55°	707	762	847	897	909	633
65°	488	575	635	630	620	483
75°	272	366	336	304	291	288
85°	77	82	75	77	80	87
90°	0	0	0	0	0	



TEST NUMBER: P189592

CATALOG NUMBER: BRG-WG-4L30-LD2-UNV-14-STD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1462.0	1462.0	1462.0	1462.0	1462.0
2.5°	1464.5	1462.0	1449.6	1462.0	1462.0
5°	1459.5	1457.0	1444.6	1457.0	1457.0
7.5°	1452.1	1449.6	1439.6	1449.6	1449.6
10°	1437.1	1434.6	1424.7	1439.6	1439.6
12.5°	1419.7	1419.7	1412.2	1424.7	1424.7
15°	1399.8	1399.8	1394.8	1409.7	1409.7
17.5°	1377.3	1374.9	1372.4	1389.8	1392.3
20°	1347.5	1347.5	1349.9	1367.4	1369.9
22.5°	1320.1	1320.1	1322.5	1345.0	1349.9
25°	1282.7	1287.7	1295.2	1320.1	1325.0
27.5°	1247.8	1250.3	1265.3	1292.7	1300.1
30°	1205.5	1215.4	1232.9	1262.8	1272.7
32.5°	1165.6	1175.6	1198.0	1232.9	1242.8
35°	1120.8	1133.3	1163.1	1203.0	1215.4
37.5°	1076.0	1088.4	1125.8	1170.6	1183.1
40°	1023.7	1046.1	1088.4	1135.7	1153.2
42.5°	973.9	998.8	1051.1	1103.4	1123.3
45°	924.0	951.4	1011.2	1068.5	1088.4
47.5°	874.2	904.1	971.4	1031.1	1048.6
50°	816.9	856.8	931.5	988.8	1008.7
52.5°	762.1	809.5	889.2	946.5	961.4
55°	707.4	762.1	846.8	896.6	909.1
57.5°	652.6	714.8	797.0	839.4	846.8
60°	597.8	667.5	749.7	777.1	782.1
62.5°	543.0	622.7	692.4	707.4	704.9
65°	488.2	575.3	635.1	630.1	620.2
67.5°	433.4	525.5	565.4	547.9	540.5
70°	378.6	475.7	493.2	465.8	453.3
72.5°	326.3	423.4	415.9	383.6	371.1
75°	271.5	366.1	336.2	303.9	291.4
77.5°	221.7	303.9	254.0	224.2	216.7
80°	169.4	231.6	181.8	161.9	159.4
82.5°	122.0	154.4	119.6	117.1	117.1
85°	77.2	82.2	74.7	77.2	79.7
87.5°	34.9	37.4	39.9	39.9	42.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)