

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: P189511

Luminaire Tested: **BRG-WS-4L35-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34939)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WS-4L35-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 4 (735 mA)
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

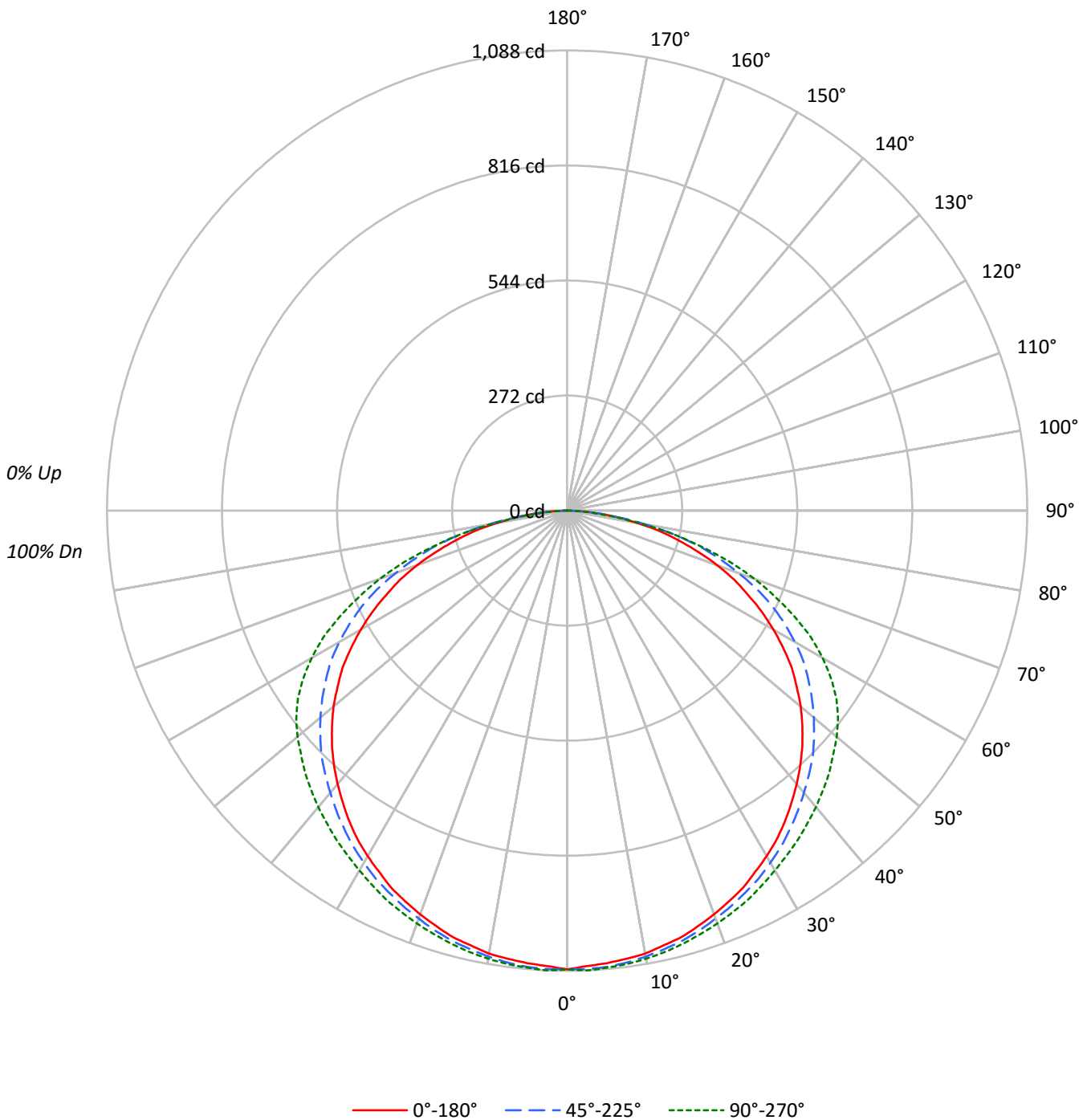
Lumens per Lamp: N/A
Luminaire Lumens: 3636.8 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.36 / 1.47
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 33.8
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: P189511
CATALOG NUMBER: BRG-WS-4L35-LD2-UNV-22-STD

Luminous Intensity Polar Plot





TEST NUMBER: P189511

CATALOG NUMBER: BRG-WS-4L35-LD2-UNV-22-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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	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	71	59	50	43	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	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	40	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	28	24	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3474	3474	3474
5°	3453	3482	3487
10°	3459	3482	3499
15°	3462	3491	3515
20°	3462	3498	3541
25°	3477	3521	3584
30°	3489	3554	3633
35°	3509	3592	3716
40°	3530	3642	3826
45°	3561	3721	3969
50°	3592	3794	4146
55°	3620	3887	4341
60°	3610	3983	4470
65°	3574	4057	4499
70°	3540	4037	4417
75°	3389	3979	4045
80°	3095	3454	3259
85°	2532	2466	2142



TEST NUMBER: P189511

CATALOG NUMBER: BRG-WS-4L35-LD2-UNV-22-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	2.8
10°-20°	297.2	8.2
20°-30°	460.2	12.7
30°-40°	577.0	15.9
40°-50°	637.1	17.5
50°-60°	628.0	17.3
60°-70°	526.7	14.5
70°-80°	326.1	9.0
80°-90°	81.6	2.2
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°	860.3	23.7
0°-40°	1437.4	39.5
0°-60°	2702.4	74.3
0°-90°	3636.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3636.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1085	1085	1085	1085	1085	
5°	1074	1078	1083	1085	1085	102
15°	1044	1046	1053	1058	1060	295
25°	984	986	996	1009	1014	453
35°	898	901	919	940	951	562
45°	786	793	822	855	876	607
55°	648	657	696	747	777	577
65°	472	495	535	576	594	468
75°	274	302	322	322	327	289
85°	69	78	67	58	58	81
90°	0	0	0	0	0	



TEST NUMBER: P189511

CATALOG NUMBER: BRG-WS-4L35-LD2-UNV-22-STD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1084.8	1084.8	1084.8	1084.8	1084.8
2.5°	1077.8	1081.3	1084.8	1088.4	1088.4
5°	1074.2	1077.8	1083.1	1084.8	1084.8
7.5°	1068.9	1072.5	1077.8	1079.5	1081.3
10°	1063.6	1065.4	1070.7	1074.2	1076.0
12.5°	1053.0	1056.6	1061.9	1067.2	1068.9
15°	1044.2	1046.0	1053.0	1058.3	1060.1
17.5°	1030.1	1033.6	1040.7	1047.7	1049.5
20°	1015.9	1017.7	1026.5	1035.4	1038.9
22.5°	1000.0	1003.6	1012.4	1023.0	1026.5
25°	984.1	985.9	996.5	1008.9	1014.2
27.5°	962.9	968.2	980.6	991.2	998.3
30°	943.5	947.0	961.2	975.3	982.4
32.5°	922.3	925.8	941.7	959.4	966.5
35°	897.6	901.1	918.8	940.0	950.6
37.5°	871.1	876.4	895.8	920.5	932.9
40°	844.5	849.8	871.1	901.1	915.2
42.5°	816.3	821.6	846.3	879.9	895.8
45°	786.2	793.3	821.6	855.1	876.4
47.5°	754.4	763.3	791.5	833.9	853.4
50°	720.9	727.9	761.5	807.4	832.2
52.5°	683.8	694.4	729.7	780.9	807.4
55°	648.4	657.3	696.1	747.4	777.4
57.5°	606.0	620.2	662.6	712.0	740.3
60°	563.6	579.5	621.9	671.4	697.9
62.5°	519.4	538.9	579.5	627.2	650.2
65°	471.7	494.7	535.4	576.0	593.7
67.5°	427.6	448.8	485.9	517.7	531.8
70°	378.1	401.1	431.1	457.6	471.7
72.5°	325.1	353.4	376.3	390.5	402.8
75°	273.9	302.1	321.6	321.6	326.9
77.5°	224.4	245.6	256.2	252.7	256.2
80°	167.8	189.1	187.3	180.2	176.7
82.5°	116.6	130.7	123.7	113.1	109.5
85°	68.9	77.7	67.1	58.3	58.3
87.5°	28.3	30.0	21.2	15.9	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)