

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: P189541

Luminaire Tested: **BRG-WD-4L30-LD2-UNV-22-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189541  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34970)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: BRG-WD-4L30-LD2-UNV-22-STD  
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY  
LIGHT LEVEL 4 (735 mA)  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

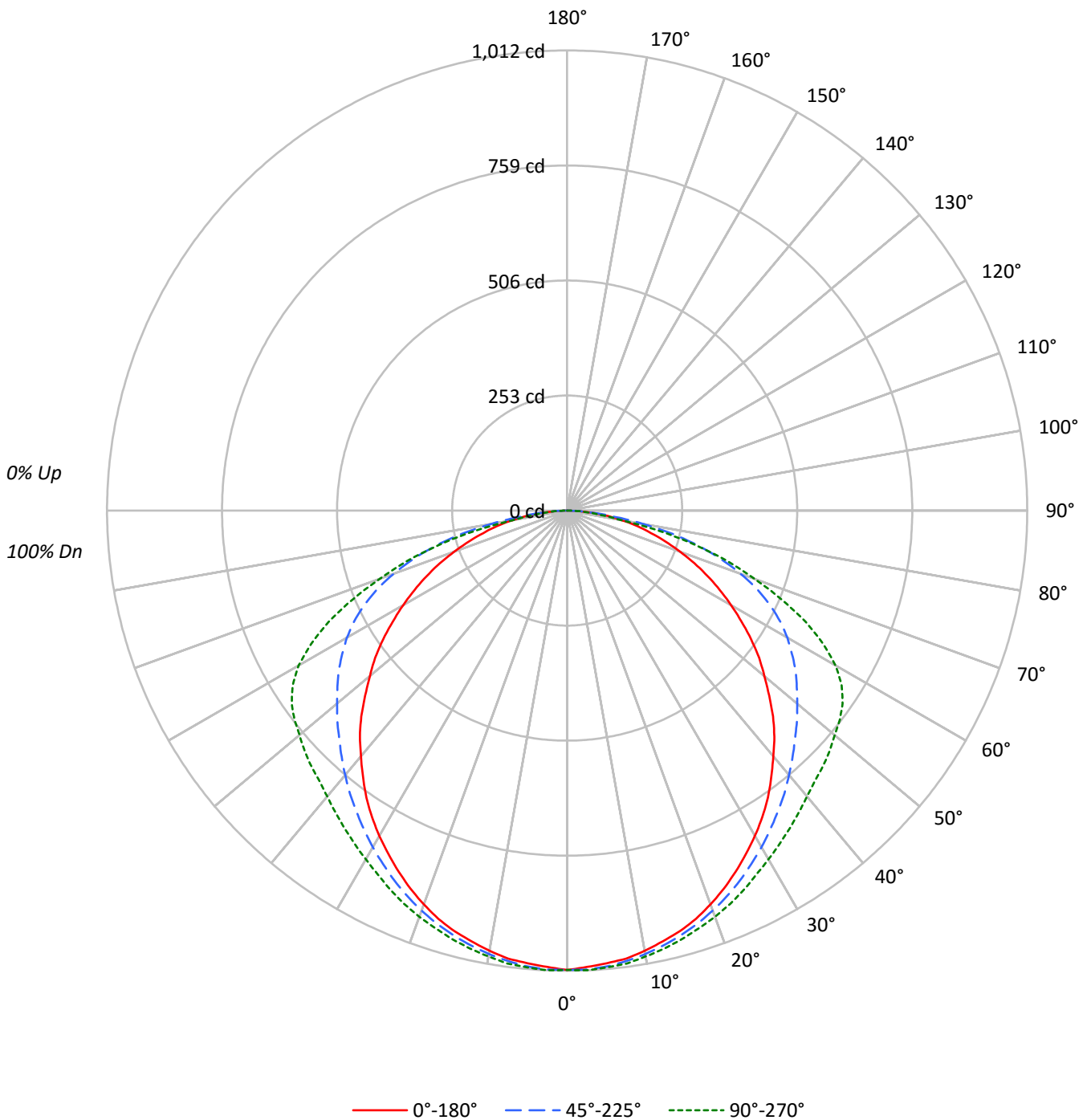
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3214.9 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.42  
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



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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	101	96	93	96	93	90		92	89	87		89	86	84	82
2	97	89	81	75	95	87	80	74	83	77	73		80	75	71		77	73	69	67
3	88	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	51	64	56	50		62	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38		50	43	37		48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33		45	38	33		44	37	33	30
8	59	45	36	30	57	44	35	30	42	35	29		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26		38	31	26		37	31	26	24
10	51	38	29	24	50	37	29	24	36	29	24		35	28	24		34	28	24	22

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

	0°	45°	90°
0°	3235	3235	3235
5°	3212	3236	3241
10°	3197	3220	3238
15°	3176	3205	3235
20°	3141	3191	3240
25°	3098	3174	3251
30°	3055	3162	3275
35°	3011	3159	3336
40°	2949	3175	3431
45°	2900	3211	3603
50°	2822	3289	3828
55°	2759	3424	4129
60°	2669	3582	4367
65°	2583	3731	4388
70°	2466	3800	4104
75°	2366	3705	3616
80°	2263	3161	2230
85°	1988	2120	1657



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.5	3.0
10°-20°	272.9	8.5
20°-30°	414.0	12.9
30°-40°	507.2	15.8
40°-50°	550.9	17.1
50°-60°	548.6	17.1
60°-70°	470.1	14.6
70°-80°	287.3	8.9
80°-90°	68.4	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°	782.4	24.3
0°-40°	1289.5	40.1
0°-60°	2389.1	74.3
0°-90°	3214.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3214.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1010	1010	1010	1010	1010	
5°	999	1003	1006	1008	1008	95
15°	958	960	967	974	976	270
25°	877	882	898	913	920	404
35°	770	779	808	839	853	481
45°	640	658	709	765	796	493
55°	494	532	613	696	740	441
65°	341	404	492	556	579	337
75°	191	263	299	299	292	203
85°	54	72	58	49	45	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1010.1	1010.1	1010.1	1010.1	1010.1
2.5°	1004.7	1006.5	1010.1	1011.9	1011.9
5°	999.3	1002.9	1006.5	1008.3	1008.3
7.5°	993.9	995.7	999.3	1002.9	1004.7
10°	983.1	984.9	990.3	995.7	995.7
12.5°	970.4	974.0	979.5	984.9	986.7
15°	957.8	959.6	966.8	974.0	975.8
17.5°	941.6	943.4	952.4	961.4	963.2
20°	921.7	925.3	936.2	945.2	950.6
22.5°	900.1	903.7	918.1	930.7	936.2
25°	876.6	882.0	898.3	912.7	919.9
27.5°	851.4	858.6	876.6	894.7	901.9
30°	826.1	833.3	855.0	876.6	885.7
32.5°	799.1	808.1	831.5	856.8	869.4
35°	770.2	779.2	808.1	838.8	853.2
37.5°	737.7	752.2	784.6	820.7	837.0
40°	705.3	721.5	759.4	800.9	820.7
42.5°	674.6	690.8	734.1	782.8	806.3
45°	640.3	658.4	708.9	764.8	795.5
47.5°	602.5	627.7	685.4	748.6	782.8
50°	566.4	595.2	660.2	732.3	768.4
52.5°	532.1	564.6	636.7	716.1	755.8
55°	494.2	532.1	613.3	696.3	739.5
57.5°	454.6	499.6	586.2	672.8	716.1
60°	416.7	467.2	559.2	643.9	681.8
62.5°	378.8	438.3	528.5	606.1	634.9
65°	340.9	404.0	492.4	555.6	579.0
67.5°	303.0	373.4	452.7	497.8	510.5
70°	263.4	337.3	405.8	432.9	438.3
72.5°	227.3	301.2	355.3	368.0	369.8
75°	191.2	263.4	299.4	299.4	292.2
77.5°	158.7	220.1	238.1	223.7	211.0
80°	122.7	169.6	171.4	138.9	120.9
82.5°	88.4	120.9	106.4	83.0	74.0
85°	54.1	72.2	57.7	48.7	45.1
87.5°	19.8	23.4	19.8	21.6	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)