

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: P189540

Luminaire Tested: **BRG-WD-3L30-LD2-UNV-22-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189540  
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-3L30-LD2-UNV-22-STD  
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY  
LIGHT LEVEL 3 (628 mA)  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

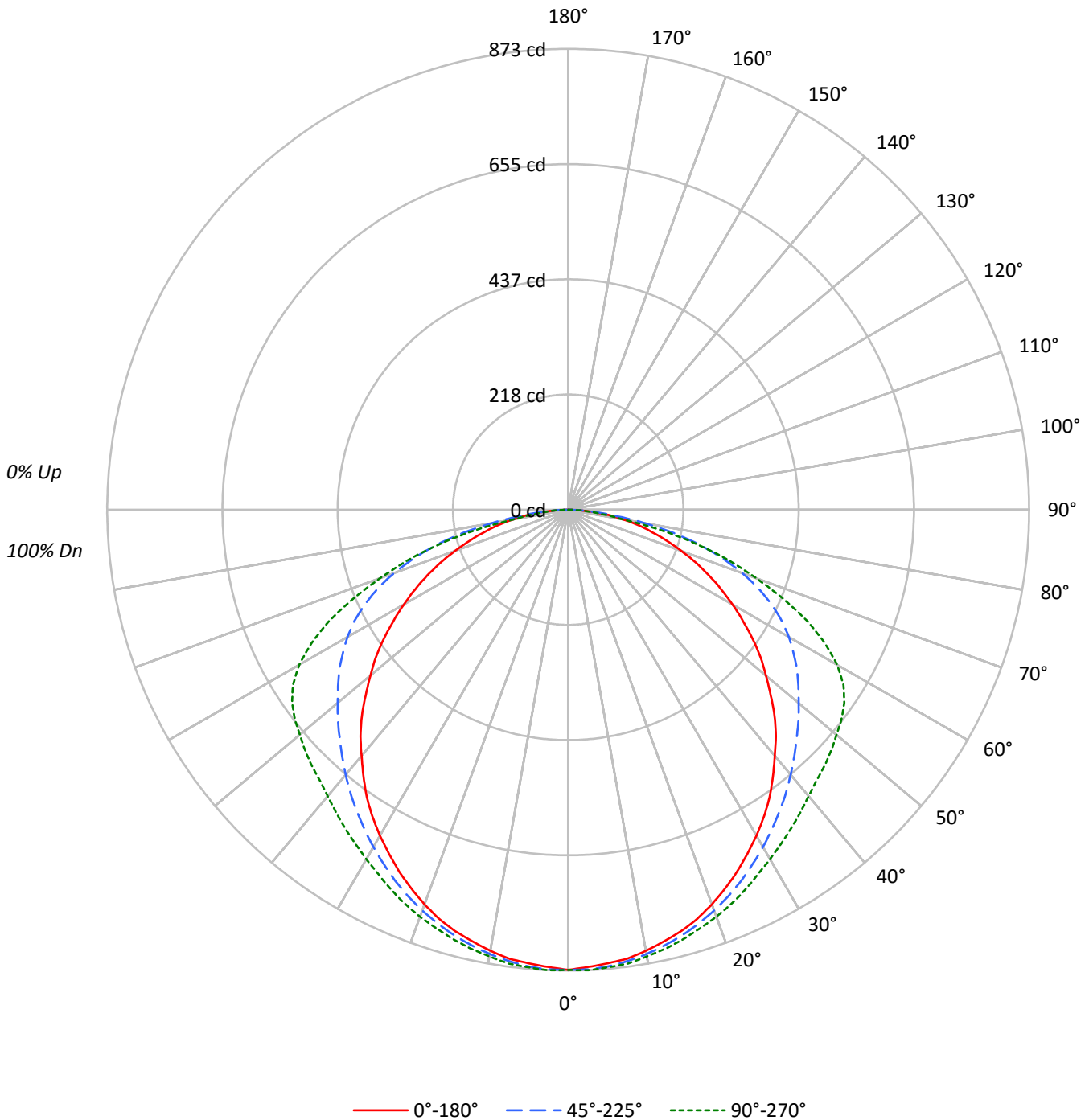
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2774.7 lumens  
Efficiency: N/A  
Efficacy: 96.7 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): 28.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	2792	2792	2792
5°	2773	2793	2797
10°	2759	2779	2795
15°	2741	2766	2792
20°	2711	2754	2796
25°	2673	2740	2806
30°	2637	2729	2827
35°	2599	2727	2879
40°	2545	2740	2961
45°	2503	2771	3109
50°	2435	2839	3304
55°	2382	2955	3564
60°	2303	3091	3769
65°	2229	3221	3787
70°	2128	3280	3542
75°	2042	3197	3121
80°	1953	2728	1924
85°	1716	1830	1429



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.4	3.0
10°-20°	235.5	8.5
20°-30°	357.4	12.9
30°-40°	437.7	15.8
40°-50°	475.5	17.1
50°-60°	473.5	17.1
60°-70°	405.8	14.6
70°-80°	247.9	8.9
80°-90°	59.0	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°	675.3	24.3
0°-40°	1113.0	40.1
0°-60°	2062.0	74.3
0°-90°	2774.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2774.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	872	872	872	872	872	
5°	862	866	869	870	870	82
15°	827	828	834	841	842	233
25°	757	761	775	788	794	349
35°	665	672	697	724	736	415
45°	553	568	612	660	686	425
55°	427	459	529	601	638	381
65°	294	349	425	480	500	291
75°	165	227	258	258	252	175
85°	47	62	50	42	39	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	871.8	871.8	871.8	871.8	871.8
2.5°	867.1	868.7	871.8	873.4	873.4
5°	862.5	865.6	868.7	870.2	870.2
7.5°	857.8	859.4	862.5	865.6	867.1
10°	848.5	850.0	854.7	859.4	859.4
12.5°	837.6	840.7	845.3	850.0	851.6
15°	826.7	828.2	834.4	840.7	842.2
17.5°	812.6	814.2	822.0	829.8	831.3
20°	795.5	798.6	808.0	815.8	820.4
22.5°	776.8	780.0	792.4	803.3	808.0
25°	756.6	761.3	775.3	787.7	794.0
27.5°	734.8	741.0	756.6	772.2	778.4
30°	713.0	719.2	737.9	756.6	764.4
32.5°	689.7	697.4	717.7	739.5	750.4
35°	664.8	672.5	697.4	723.9	736.4
37.5°	636.7	649.2	677.2	708.3	722.4
40°	608.7	622.7	655.4	691.2	708.3
42.5°	582.2	596.3	633.6	675.6	695.9
45°	552.7	568.2	611.8	660.1	686.5
47.5°	520.0	541.8	591.6	646.1	675.6
50°	488.8	513.7	569.8	632.1	663.2
52.5°	459.3	487.3	549.5	618.0	652.3
55°	426.6	459.3	529.3	600.9	638.3
57.5°	392.3	431.2	506.0	580.7	618.0
60°	359.6	403.2	482.6	555.8	588.5
62.5°	326.9	378.3	456.1	523.1	548.0
65°	294.2	348.7	425.0	479.5	499.7
67.5°	261.5	322.3	390.8	429.7	440.6
70°	227.3	291.1	350.3	373.6	378.3
72.5°	196.2	260.0	306.7	317.6	319.1
75°	165.0	227.3	258.4	258.4	252.2
77.5°	137.0	189.9	205.5	193.0	182.1
80°	105.9	146.3	147.9	119.9	104.3
82.5°	76.3	104.3	91.9	71.6	63.8
85°	46.7	62.3	49.8	42.0	38.9
87.5°	17.1	20.2	17.1	18.7	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)