

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: P189539

Luminaire Tested: **BRG-WD-2L30-LD2-UNV-22-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189539  
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-2L30-LD2-UNV-22-STD  
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND  
ROUND PERF INLAY  
LIGHT LEVEL 2 (506 mA)  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

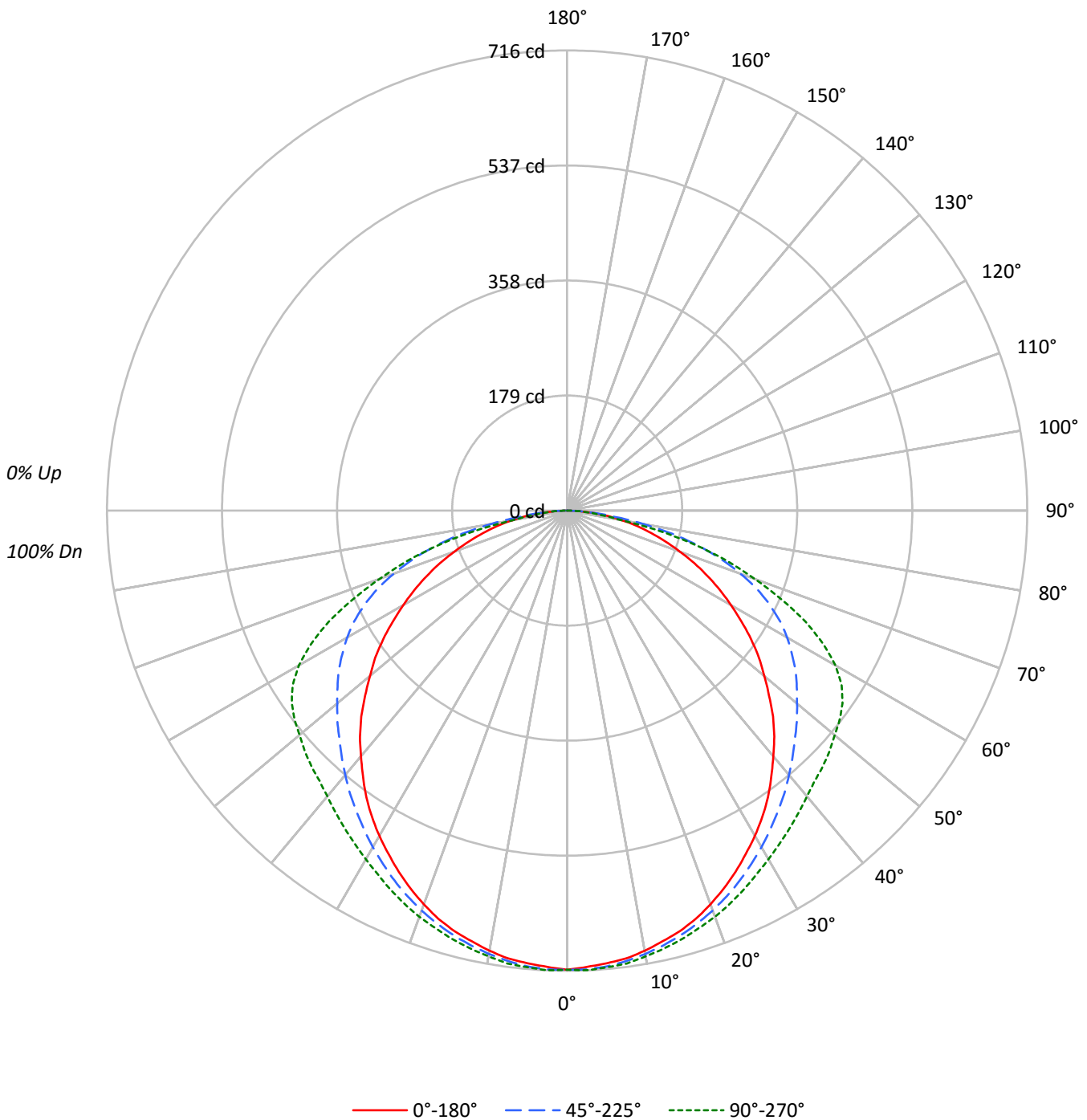
Lumens per Lamp: N/A  
Luminaire Lumens: 2274.0 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.42  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.1  
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	101	96	93	96	93	90	92	89	87	89	86	84
2	97	89	81	75	95	87	80	74	83	77	73	80	75	71	77	73	69
3	88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58
4	81	68	59	52	78	67	58	51	64	56	50	62	55	50	59	54	49
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33
8	59	45	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26
10	51	38	29	24	50	37	29	24	36	29	24	35	28	24	34	28	24

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

	0°	45°	90°
0°	2288	2288	2288
5°	2272	2289	2293
10°	2261	2278	2290
15°	2246	2267	2289
20°	2222	2257	2292
25°	2191	2245	2299
30°	2161	2237	2317
35°	2130	2235	2359
40°	2086	2246	2427
45°	2051	2271	2548
50°	1996	2327	2708
55°	1952	2422	2921
60°	1888	2533	3089
65°	1827	2639	3104
70°	1744	2688	2903
75°	1673	2621	2558
80°	1601	2235	1577
85°	1407	1499	1172



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.5	3.0
10°-20°	193.0	8.5
20°-30°	292.9	12.9
30°-40°	358.7	15.8
40°-50°	389.7	17.1
50°-60°	388.1	17.1
60°-70°	332.5	14.6
70°-80°	203.2	8.9
80°-90°	48.4	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°	553.4	24.3
0°-40°	912.2	40.1
0°-60°	1689.9	74.3
0°-90°	2274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2274.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	714	714	714	714	714	
5°	707	709	712	713	713	67
15°	678	679	684	689	690	191
25°	620	624	635	646	651	286
35°	545	551	572	593	604	340
45°	453	466	501	541	563	349
55°	350	376	434	492	523	312
65°	241	286	348	393	410	239
75°	135	186	212	212	207	144
85°	38	51	41	34	32	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	714.5	714.5	714.5	714.5	714.5
2.5°	710.7	712.0	714.5	715.8	715.8
5°	706.9	709.4	712.0	713.2	713.2
7.5°	703.0	704.3	706.9	709.4	710.7
10°	695.4	696.6	700.5	704.3	704.3
12.5°	686.4	689.0	692.8	696.6	697.9
15°	677.5	678.8	683.9	689.0	690.3
17.5°	666.0	667.3	673.7	680.1	681.3
20°	652.0	654.5	662.2	668.6	672.4
22.5°	636.7	639.2	649.4	658.4	662.2
25°	620.1	623.9	635.4	645.6	650.7
27.5°	602.2	607.3	620.1	632.8	638.0
30°	584.4	589.5	604.8	620.1	626.5
32.5°	565.2	571.6	588.2	606.1	615.0
35°	544.8	551.2	571.6	593.3	603.5
37.5°	521.8	532.1	555.0	580.5	592.0
40°	498.9	510.4	537.2	566.5	580.5
42.5°	477.2	488.7	519.3	553.7	570.3
45°	452.9	465.7	501.4	541.0	562.7
47.5°	426.2	444.0	484.8	529.5	553.7
50°	400.6	421.0	467.0	518.0	543.5
52.5°	376.4	399.4	450.4	506.5	534.6
55°	349.6	376.4	433.8	492.5	523.1
57.5°	321.5	353.4	414.7	475.9	506.5
60°	294.7	330.5	395.5	455.5	482.3
62.5°	267.9	310.0	373.8	428.7	449.1
65°	241.1	285.8	348.3	393.0	409.6
67.5°	214.4	264.1	320.3	352.1	361.1
70°	186.3	238.6	287.1	306.2	310.0
72.5°	160.8	213.1	251.4	260.3	261.6
75°	135.2	186.3	211.8	211.8	206.7
77.5°	112.3	155.7	168.4	158.2	149.3
80°	86.8	119.9	121.2	98.2	85.5
82.5°	62.5	85.5	75.3	58.7	52.3
85°	38.3	51.0	40.8	34.4	31.9
87.5°	14.0	16.6	14.0	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)