

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: P189514

Luminaire Tested: **BRG-WS-1L40-LD2-UNV-22-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189514  
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-1L40-LD2-UNV-22-STD  
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 1 (408 mA)  
Light Source: (168) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

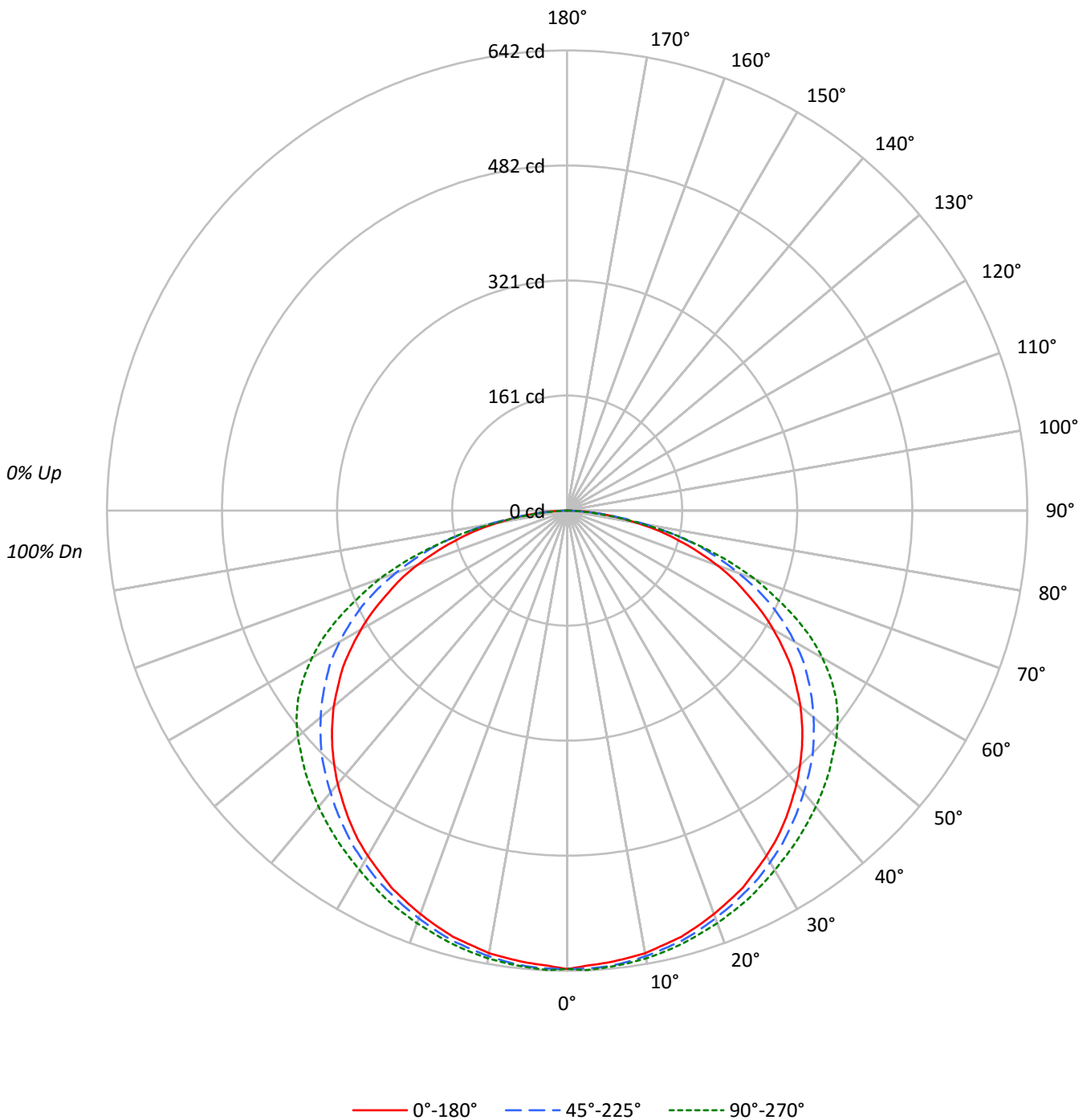
Lumens per Lamp: N/A  
Luminaire Lumens: 2144.0 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.36 / 1.47  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 18.6  
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	100	96	92	96	93	89	92	89	87	89	86	84
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	41	37
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26
10	51	37	29	24	50	37	29	24	36	28	24	35	28	23	34	28	23

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

	0°	45°	90°
0°	2048	2048	2048
5°	2036	2053	2056
10°	2039	2053	2063
15°	2041	2058	2072
20°	2041	2063	2087
25°	2050	2076	2113
30°	2057	2095	2141
35°	2069	2117	2191
40°	2082	2147	2255
45°	2099	2193	2340
50°	2117	2237	2444
55°	2135	2291	2559
60°	2128	2348	2635
65°	2107	2392	2652
70°	2087	2379	2604
75°	1997	2346	2384
80°	1826	2036	1922
85°	1492	1455	1264



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.6	2.8
10°-20°	175.2	8.2
20°-30°	271.3	12.7
30°-40°	340.2	15.9
40°-50°	375.6	17.5
50°-60°	370.2	17.3
60°-70°	310.5	14.5
70°-80°	192.2	9.0
80°-90°	48.1	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°	507.2	23.7
0°-40°	847.4	39.5
0°-60°	1593.1	74.3
0°-90°	2144.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2144.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	640	640	640	640	640	
5°	633	635	638	640	640	60
15°	616	617	621	624	625	174
25°	580	581	588	595	598	267
35°	529	531	542	554	560	331
45°	464	468	484	504	517	358
55°	382	388	410	441	458	340
65°	278	292	316	340	350	276
75°	161	178	190	190	193	170
85°	41	46	40	34	34	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	639.5	639.5	639.5	639.5	639.5
2.5°	635.4	637.5	639.5	641.6	641.6
5°	633.3	635.4	638.5	639.5	639.5
7.5°	630.2	632.2	635.4	636.4	637.5
10°	627.0	628.1	631.2	633.3	634.3
12.5°	620.8	622.9	626.0	629.1	630.2
15°	615.6	616.6	620.8	623.9	625.0
17.5°	607.3	609.3	613.5	617.7	618.7
20°	598.9	600.0	605.2	610.4	612.5
22.5°	589.5	591.6	596.8	603.1	605.2
25°	580.2	581.2	587.5	594.8	597.9
27.5°	567.7	570.8	578.1	584.3	588.5
30°	556.2	558.3	566.6	575.0	579.1
32.5°	543.7	545.8	555.2	565.6	569.8
35°	529.1	531.2	541.6	554.1	560.4
37.5°	513.5	516.6	528.1	542.7	550.0
40°	497.9	501.0	513.5	531.2	539.5
42.5°	481.2	484.3	498.9	518.7	528.1
45°	463.5	467.7	484.3	504.1	516.6
47.5°	444.8	450.0	466.6	491.6	503.1
50°	425.0	429.1	448.9	476.0	490.6
52.5°	403.1	409.3	430.2	460.4	476.0
55°	382.3	387.5	410.4	440.6	458.3
57.5°	357.3	365.6	390.6	419.8	436.4
60°	332.3	341.6	366.6	395.8	411.4
62.5°	306.2	317.7	341.6	369.8	383.3
65°	278.1	291.6	315.6	339.6	350.0
67.5°	252.1	264.6	286.4	305.2	313.5
70°	222.9	236.4	254.1	269.8	278.1
72.5°	191.7	208.3	221.9	230.2	237.5
75°	161.4	178.1	189.6	189.6	192.7
77.5°	132.3	144.8	151.0	148.9	151.0
80°	99.0	111.5	110.4	106.2	104.2
82.5°	68.7	77.1	72.9	66.7	64.6
85°	40.6	45.8	39.6	34.4	34.4
87.5°	16.7	17.7	12.5	9.4	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)