

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: P189600

Luminaire Tested: **BRG-WG-2L40-LD2-UNV-14-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189600  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34883)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: BRG-WG-2L40-LD2-UNV-14-STD  
Description: BRIDGE 1x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND  
RECTANGULAR PERF INLAY  
LIGHT LEVEL 2 (635 mA)  
Light Source: (308) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

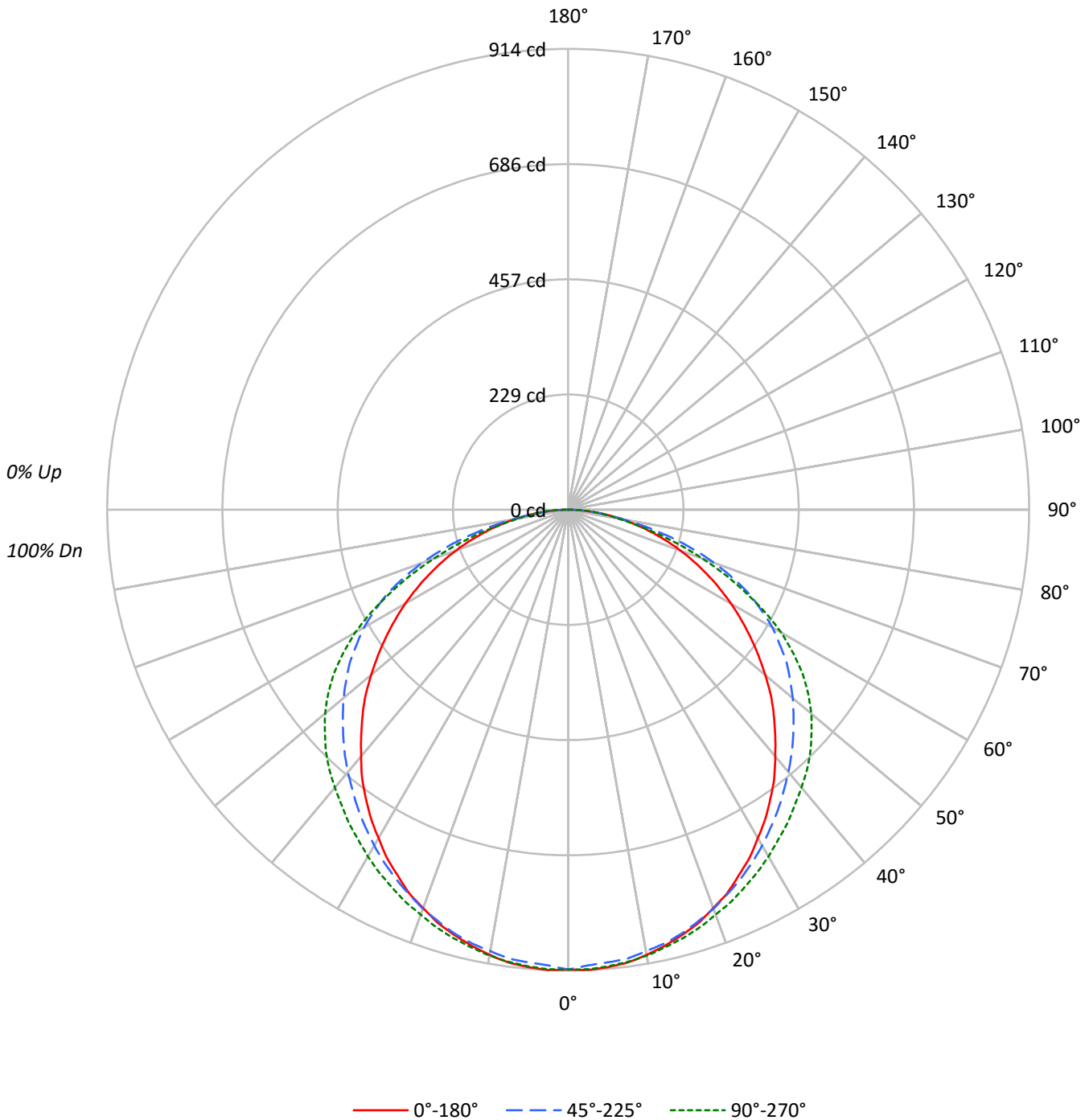
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2747.4 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 28.1  
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	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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

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

	0°	45°	90°
0°	2794	2794	2794
5°	2800	2771	2795
10°	2789	2765	2794
15°	2770	2760	2789
20°	2741	2746	2786
25°	2705	2731	2794
30°	2660	2721	2809
35°	2615	2714	2836
40°	2554	2716	2877
45°	2497	2733	2942
50°	2429	2770	2999
55°	2357	2822	3029
60°	2285	2865	2990
65°	2208	2872	2804
70°	2115	2756	2533
75°	2005	2483	2152
80°	1865	2000	1755
85°	1694	1638	1747



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.2	3.1
10°-20°	246.8	9.0
20°-30°	374.4	13.6
30°-40°	455.7	16.6
40°-50°	486.1	17.7
50°-60°	461.0	16.8
60°-70°	368.0	13.4
70°-80°	212.0	7.7
80°-90°	57.2	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°	707.4	25.7
0°-40°	1163.1	42.3
0°-60°	2110.2	76.8
0°-90°	2747.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2747.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	912	912	912	912	912	
5°	911	909	901	909	909	87
15°	873	873	870	880	880	246
25°	800	803	808	824	827	369
35°	699	707	726	751	758	437
45°	576	594	631	667	679	445
55°	441	476	528	559	567	395
65°	305	359	396	393	387	301
75°	169	228	210	190	182	180
85°	48	51	47	48	50	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	912.2	912.2	912.2	912.2	912.2
2.5°	913.7	912.2	904.4	912.2	912.2
5°	910.6	909.1	901.3	909.1	909.1
7.5°	906.0	904.4	898.2	904.4	904.4
10°	896.6	895.1	888.9	898.2	898.2
12.5°	885.8	885.8	881.1	888.9	888.9
15°	873.3	873.3	870.2	879.6	879.6
17.5°	859.4	857.8	856.2	867.1	868.7
20°	840.7	840.7	842.3	853.1	854.7
22.5°	823.6	823.6	825.2	839.2	842.3
25°	800.3	803.4	808.1	823.6	826.7
27.5°	778.5	780.1	789.4	806.5	811.2
30°	752.1	758.3	769.2	787.9	794.1
32.5°	727.3	733.5	747.5	769.2	775.4
35°	699.3	707.1	725.7	750.6	758.3
37.5°	671.3	679.1	702.4	730.4	738.1
40°	638.7	652.7	679.1	708.6	719.5
42.5°	607.6	623.1	655.8	688.4	700.8
45°	576.5	593.6	630.9	666.7	679.1
47.5°	545.4	564.1	606.1	643.3	654.2
50°	509.7	534.6	581.2	616.9	629.4
52.5°	475.5	505.0	554.8	590.5	599.8
55°	441.3	475.5	528.4	559.4	567.2
57.5°	407.1	446.0	497.3	523.7	528.4
60°	373.0	416.5	467.7	484.8	488.0
62.5°	338.8	388.5	432.0	441.3	439.8
65°	304.6	359.0	396.3	393.2	386.9
67.5°	270.4	327.9	352.8	341.9	337.2
70°	236.2	296.8	307.7	290.6	282.8
72.5°	203.6	264.2	259.5	239.3	231.5
75°	169.4	228.4	209.8	189.6	181.8
77.5°	138.3	189.6	158.5	139.9	135.2
80°	105.7	144.5	113.4	101.0	99.5
82.5°	76.1	96.3	74.6	73.0	73.0
85°	48.2	51.3	46.6	48.2	49.7
87.5°	21.8	23.3	24.9	24.9	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)