

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: P189535

Luminaire Tested: **BRG-WG-4L40-LD2-UNV-22-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189535  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34863)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: BRG-WG-4L40-LD2-UNV-22-STD  
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND  
RECTANGULAR PERF INLAY  
LIGHT LEVEL 4 (735 mA)  
Light Source: (168) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

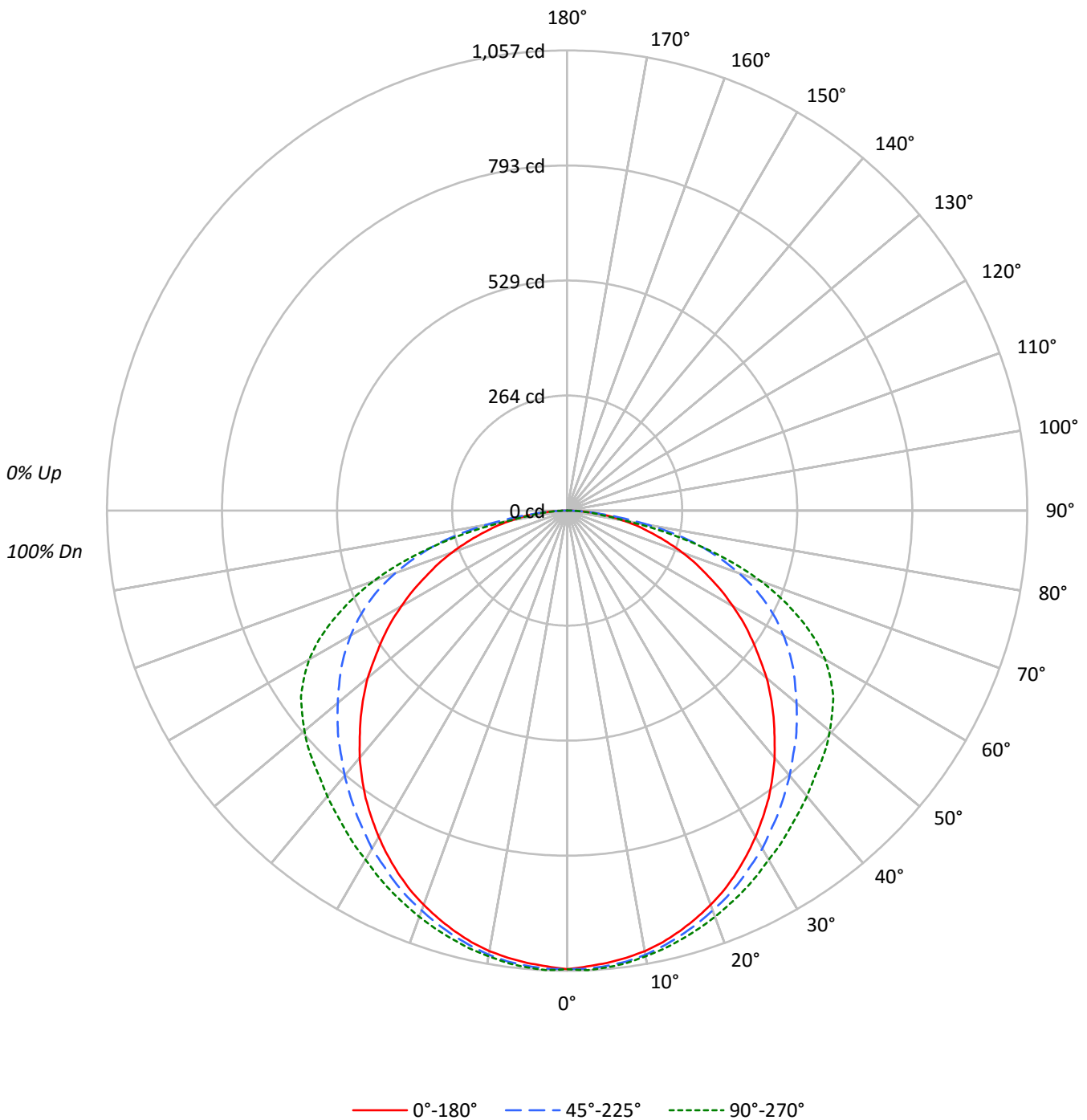
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3357.8 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.32 / 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	100	96	92	96	93	89	92	89	87	89	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60	70	64	59	67	62	58	55
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°	3373	3373	3373
5°	3353	3375	3386
10°	3341	3369	3380
15°	3315	3349	3378
20°	3284	3331	3384
25°	3247	3320	3399
30°	3200	3315	3424
35°	3154	3309	3485
40°	3099	3322	3582
45°	3037	3365	3724
50°	2980	3427	3925
55°	2897	3542	4168
60°	2816	3677	4384
65°	2717	3828	4494
70°	2631	3938	4439
75°	2496	3968	3946
80°	2416	3497	2575
85°	2216	2469	1900



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.7	3.0
10°-20°	285.1	8.5
20°-30°	433.4	12.9
30°-40°	530.8	15.8
40°-50°	574.8	17.1
50°-60°	565.6	16.8
60°-70°	485.3	14.5
70°-80°	306.0	9.1
80°-90°	77.2	2.3
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°	818.2	24.4
0°-40°	1349.0	40.2
0°-60°	2489.4	74.1
0°-90°	3357.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3357.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1053	1053	1053	1053	1053	
5°	1043	1046	1050	1052	1053	99
15°	1000	1003	1010	1017	1019	282
25°	919	924	940	955	962	423
35°	807	817	846	878	891	504
45°	671	691	743	796	822	517
55°	519	557	634	708	746	464
65°	359	421	505	567	593	356
75°	202	272	321	322	319	215
85°	60	83	67	53	52	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1053.3	1053.3	1053.3	1053.3	1053.3
2.5°	1048.2	1049.9	1053.3	1056.8	1056.8
5°	1043.0	1046.4	1049.9	1051.6	1053.3
7.5°	1036.1	1039.5	1044.7	1046.4	1048.2
10°	1027.5	1029.2	1036.1	1039.5	1039.5
12.5°	1015.4	1017.1	1024.0	1029.2	1030.9
15°	999.9	1003.3	1010.2	1017.1	1018.9
17.5°	982.7	986.1	994.7	1003.3	1006.8
20°	963.7	967.1	977.5	987.8	993.0
22.5°	943.0	948.2	960.2	972.3	977.5
25°	918.9	924.0	939.6	955.1	962.0
27.5°	893.0	901.6	917.1	936.1	944.7
30°	865.4	874.0	896.5	917.1	925.8
32.5°	836.1	846.5	870.6	896.5	910.3
35°	806.8	817.2	846.5	877.5	891.3
37.5°	774.1	787.8	820.6	856.8	874.0
40°	741.3	756.8	794.7	836.1	856.8
42.5°	705.1	722.3	767.2	815.4	837.8
45°	670.6	691.3	743.0	796.5	822.3
47.5°	634.4	658.6	715.4	775.8	806.8
50°	598.2	624.1	687.9	755.1	787.8
52.5°	556.8	591.3	660.3	732.7	767.2
55°	518.9	556.8	634.4	708.5	746.5
57.5°	481.0	524.1	605.1	681.0	717.2
60°	439.6	489.6	574.1	648.2	684.4
62.5°	400.0	456.8	541.3	612.0	643.0
65°	358.6	420.6	505.1	567.2	593.0
67.5°	320.7	386.2	465.5	517.2	536.2
70°	281.0	351.7	420.6	458.6	474.1
72.5°	241.4	312.0	370.7	393.1	400.0
75°	201.7	272.4	320.7	322.4	318.9
77.5°	167.2	229.3	258.6	243.1	234.5
80°	131.0	184.5	189.6	158.6	139.6
82.5°	96.5	131.0	119.0	93.1	81.0
85°	60.3	82.8	67.2	53.4	51.7
87.5°	27.6	31.0	25.9	25.9	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)