

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: P189553

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189553  
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-4L40-LD2-UNV-22-STD  
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY  
LIGHT LEVEL 4 (735 mA)  
Light Source: (168) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

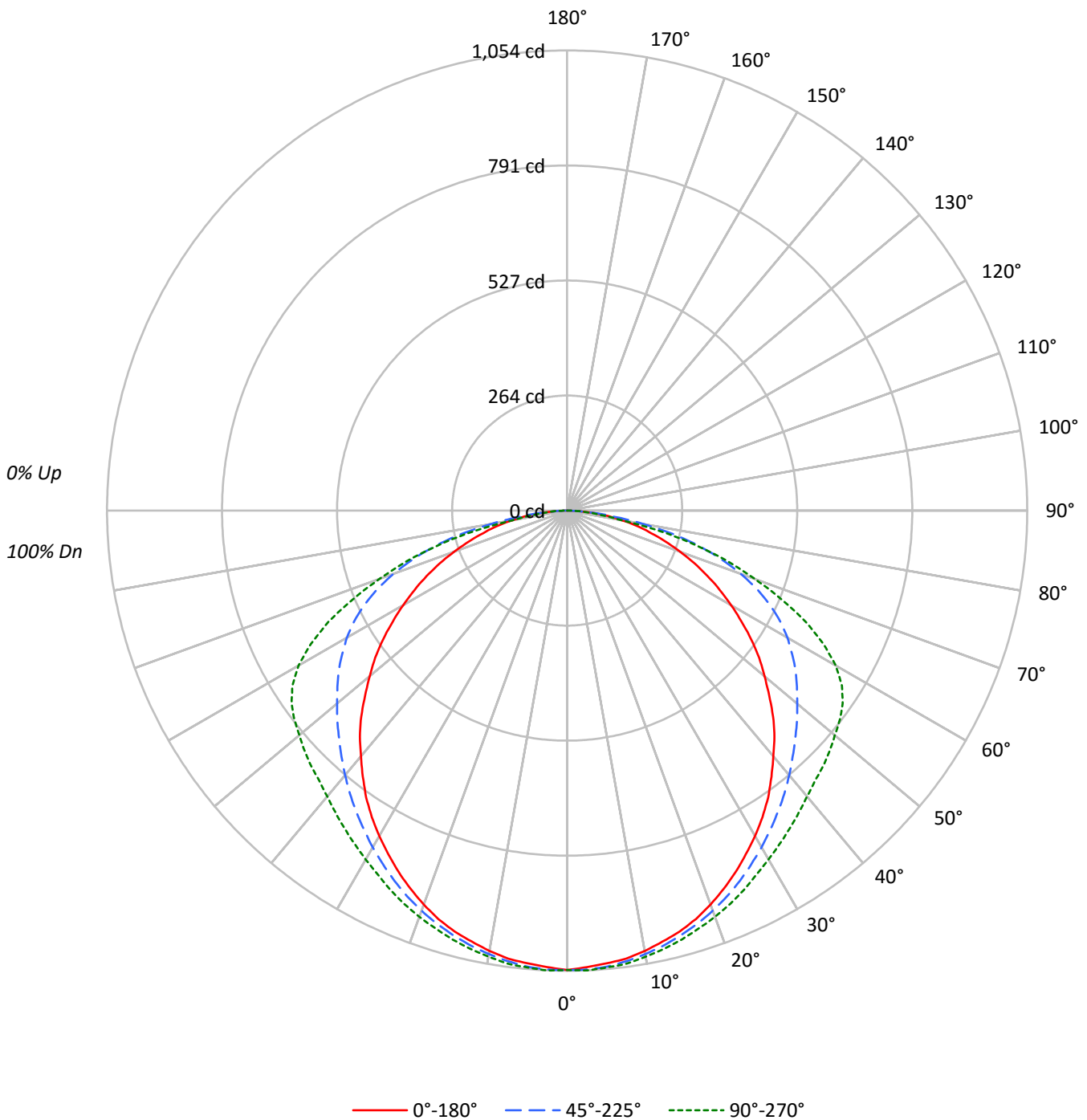
Lumens per Lamp: N/A  
Luminaire Lumens: 3349.2 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.42  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	3370	3370	3370
5°	3347	3371	3377
10°	3330	3355	3373
15°	3308	3339	3371
20°	3272	3324	3375
25°	3227	3307	3387
30°	3182	3294	3412
35°	3137	3291	3475
40°	3071	3307	3574
45°	3021	3345	3753
50°	2940	3427	3988
55°	2875	3567	4301
60°	2780	3731	4549
65°	2692	3887	4571
70°	2569	3959	4275
75°	2465	3859	3766
80°	2357	3292	2322
85°	2072	2208	1727



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.5	3.0
10°-20°	284.3	8.5
20°-30°	431.4	12.9
30°-40°	528.3	15.8
40°-50°	573.9	17.1
50°-60°	571.6	17.1
60°-70°	489.8	14.6
70°-80°	299.3	8.9
80°-90°	71.3	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°	815.1	24.3
0°-40°	1343.4	40.1
0°-60°	2488.9	74.3
0°-90°	3349.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3349.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1052	1052	1052	1052	1052	
5°	1041	1045	1049	1050	1050	99
15°	998	1000	1007	1015	1017	281
25°	913	919	936	951	958	421
35°	802	812	842	874	889	501
45°	667	686	738	797	829	513
55°	515	554	639	725	770	460
65°	355	421	513	579	603	351
75°	199	274	312	312	304	212
85°	56	75	60	51	47	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1052.3	1052.3	1052.3	1052.3	1052.3
2.5°	1046.7	1048.6	1052.3	1054.2	1054.2
5°	1041.0	1044.8	1048.6	1050.4	1050.4
7.5°	1035.4	1037.3	1041.0	1044.8	1046.7
10°	1024.1	1026.0	1031.6	1037.3	1037.3
12.5°	1011.0	1014.7	1020.4	1026.0	1027.9
15°	997.8	999.7	1007.2	1014.7	1016.6
17.5°	980.9	982.8	992.2	1001.6	1003.5
20°	960.2	964.0	975.3	984.7	990.3
22.5°	937.7	941.5	956.5	969.6	975.3
25°	913.3	918.9	935.8	950.8	958.4
27.5°	887.0	894.5	913.3	932.1	939.6
30°	860.6	868.2	890.7	913.3	922.7
32.5°	832.5	841.9	866.3	892.6	905.7
35°	802.4	811.8	841.9	873.8	888.8
37.5°	768.6	783.6	817.4	855.0	871.9
40°	734.7	751.7	791.1	834.3	855.0
42.5°	702.8	719.7	764.8	815.5	840.0
45°	667.1	685.9	738.5	796.8	828.7
47.5°	627.6	653.9	714.1	779.8	815.5
50°	590.1	620.1	687.8	762.9	800.5
52.5°	554.3	588.2	663.3	746.0	787.4
55°	514.9	554.3	638.9	725.3	770.4
57.5°	473.5	520.5	610.7	700.9	746.0
60°	434.1	486.7	582.5	670.9	710.3
62.5°	394.6	456.6	550.6	631.4	661.5
65°	355.2	420.9	513.0	578.8	603.2
67.5°	315.7	389.0	471.7	518.6	531.8
70°	274.4	351.4	422.8	451.0	456.6
72.5°	236.8	313.8	370.2	383.3	385.2
75°	199.2	274.4	311.9	311.9	304.4
77.5°	165.4	229.3	248.0	233.0	219.9
80°	127.8	176.6	178.5	144.7	125.9
82.5°	92.1	125.9	110.9	86.4	77.0
85°	56.4	75.2	60.1	50.7	47.0
87.5°	20.7	24.4	20.7	22.5	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)