

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: P189616

Luminaire Tested: **BRG-WD-3L40-LD2-UNV-14-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189616  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34884)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: BRG-WD-3L40-LD2-UNV-14-STD  
Description: BRIDGE 1x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY  
LIGHT LEVEL 3 (865 mA)  
Light Source: (308) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3696.4 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')  
CIE Type: Direct

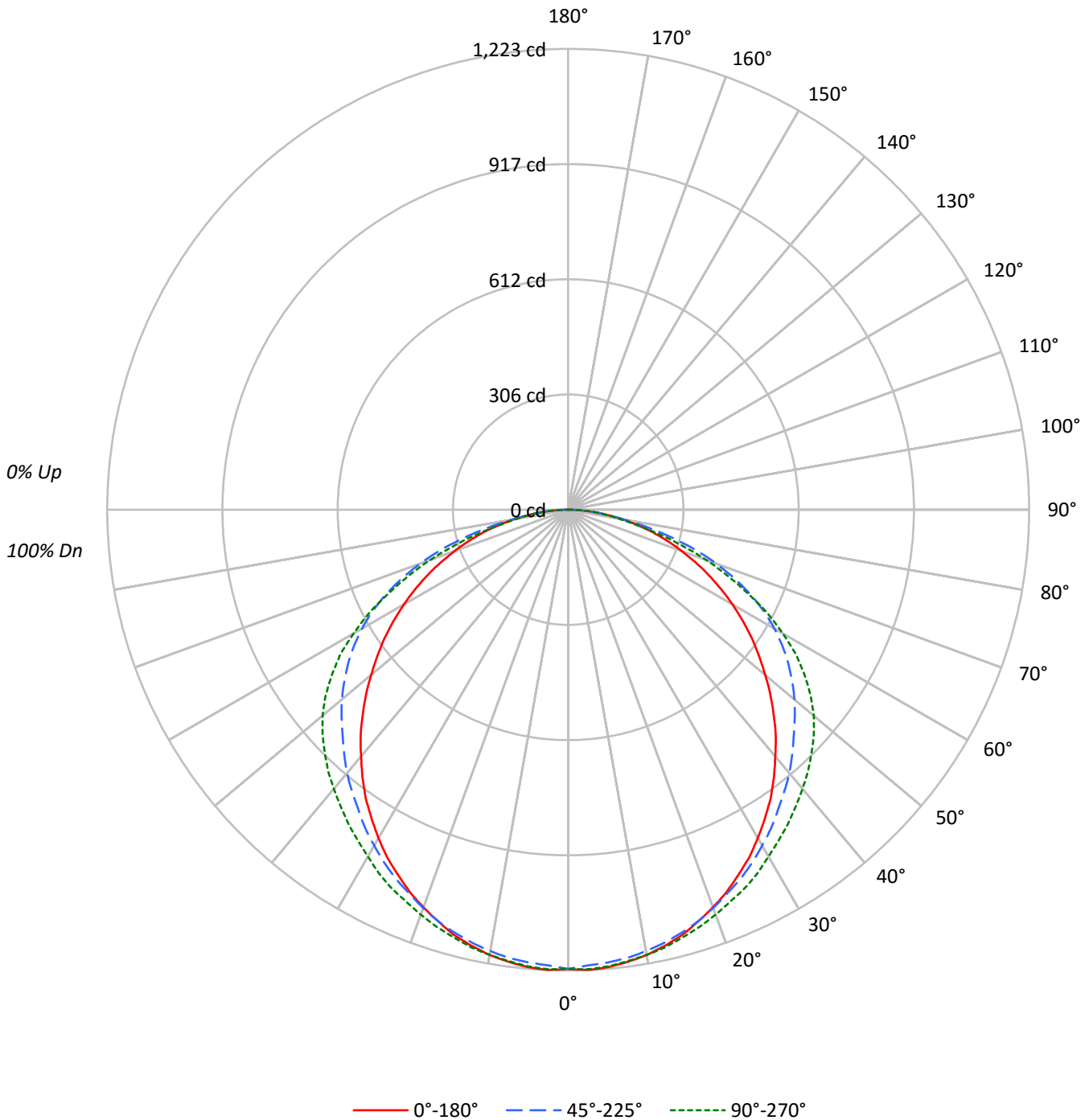
Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	50	48
5	75	61	52	45	73	60	52	45	58	51	45		56	49	44		54	48	44	41
6	69	55	46	39	67	54	46	39	52	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	43	36	31		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

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

	0°	45°	90°
0°	3733	3733	3733
5°	3747	3709	3741
10°	3732	3700	3732
15°	3706	3686	3726
20°	3660	3667	3728
25°	3613	3655	3746
30°	3560	3641	3759
35°	3499	3631	3803
40°	3418	3650	3867
45°	3342	3667	3955
50°	3251	3736	4053
55°	3176	3809	4087
60°	3083	3873	4026
65°	2984	3873	3813
70°	2868	3744	3483
75°	2756	3347	2953
80°	2568	2678	2385
85°	2337	2193	2267



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.3	3.1
10°-20°	329.8	8.9
20°-30°	500.6	13.5
30°-40°	610.1	16.5
40°-50°	653.1	17.7
50°-60°	622.8	16.8
60°-70°	498.4	13.5
70°-80°	288.6	7.8
80°-90°	77.5	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°	945.8	25.6
0°-40°	1555.9	42.1
0°-60°	2831.8	76.6
0°-90°	3696.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3696.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1219	1219	1219	1219	1219	
5°	1219	1216	1206	1216	1216	116
15°	1169	1167	1162	1175	1175	329
25°	1069	1073	1081	1102	1108	493
35°	936	944	971	1004	1017	585
45°	772	796	846	898	913	595
55°	595	643	713	757	765	531
65°	412	484	534	532	526	408
75°	233	310	283	258	250	245
85°	66	71	62	64	64	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1218.6	1218.6	1218.6	1218.6	1218.6
2.5°	1222.7	1220.7	1210.3	1218.6	1220.7
5°	1218.6	1216.5	1206.1	1216.5	1216.5
7.5°	1210.3	1208.2	1199.9	1210.3	1208.2
10°	1199.9	1197.8	1189.5	1199.9	1199.9
12.5°	1185.3	1183.2	1177.0	1189.5	1189.5
15°	1168.7	1166.6	1162.4	1174.9	1174.9
17.5°	1145.8	1145.8	1145.8	1158.3	1160.4
20°	1122.9	1125.0	1125.0	1141.6	1143.7
22.5°	1098.0	1100.0	1102.1	1122.9	1125.0
25°	1068.9	1073.0	1081.3	1102.1	1108.4
27.5°	1039.7	1043.9	1056.4	1079.3	1087.6
30°	1006.5	1010.6	1029.3	1054.3	1062.6
32.5°	971.1	979.4	1002.3	1029.3	1039.7
35°	935.8	944.1	971.1	1004.4	1016.9
37.5°	896.3	908.7	942.0	979.4	991.9
40°	854.7	873.4	912.9	954.5	967.0
42.5°	815.2	833.9	879.6	925.4	942.0
45°	771.5	796.4	846.4	898.3	912.9
47.5°	727.8	756.9	815.2	867.1	883.8
50°	682.1	719.5	784.0	833.9	850.5
52.5°	638.4	680.0	748.6	796.4	811.0
55°	594.7	642.6	713.3	756.9	765.3
57.5°	549.0	603.1	673.8	711.2	717.4
60°	503.2	563.5	632.2	657.1	657.1
62.5°	457.5	524.0	586.4	598.9	596.8
65°	411.7	484.5	534.4	532.3	526.1
67.5°	366.0	445.0	478.3	463.7	457.5
70°	320.2	401.3	418.0	395.1	388.9
72.5°	276.6	359.8	353.5	326.5	316.1
75°	232.9	309.8	282.8	257.9	249.5
77.5°	187.2	259.9	216.3	191.3	183.0
80°	145.6	199.6	151.8	137.2	135.2
82.5°	104.0	131.0	99.8	97.7	97.7
85°	66.5	70.7	62.4	64.5	64.5
87.5°	29.1	31.2	33.3	35.4	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)