

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: P189518

Luminaire Tested: **BRG-WS-5L40-LD2-UNV-22-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189518  
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-5L40-LD2-UNV-22-STD  
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 5 (845 mA)  
Light Source: (168) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

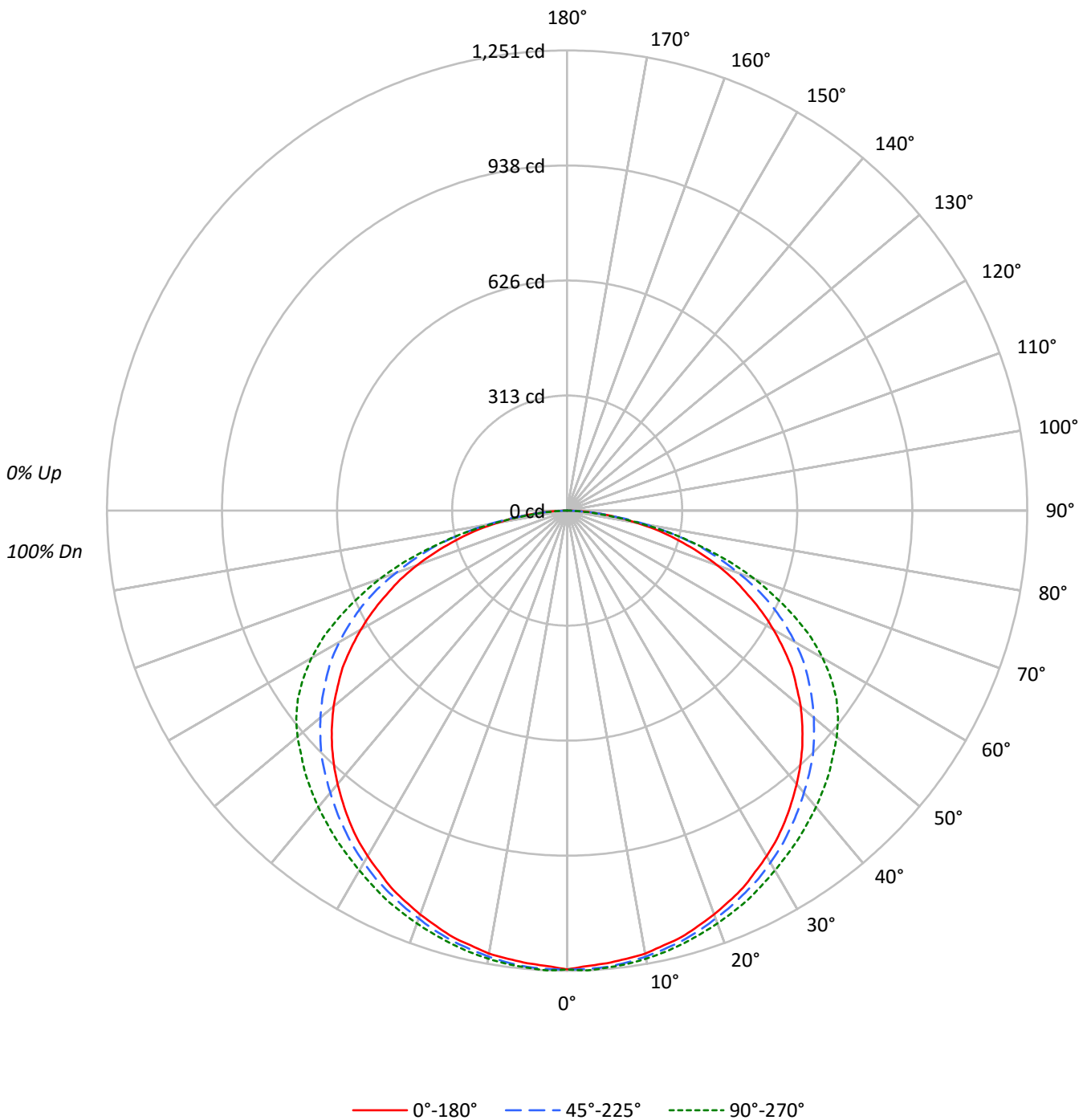
Lumens per Lamp: N/A  
Luminaire Lumens: 4181.7 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.36 / 1.47  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 39.1  
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	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	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	47
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	24	35	28	23	34	28	23	21

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

	0°	45°	90°
0°	3995	3995	3995
5°	3971	4004	4010
10°	3977	4003	4023
15°	3981	4014	4041
20°	3981	4022	4071
25°	3999	4049	4120
30°	4012	4087	4177
35°	4035	4130	4273
40°	4060	4187	4400
45°	4094	4279	4564
50°	4130	4362	4767
55°	4163	4469	4991
60°	4151	4580	5140
65°	4110	4665	5173
70°	4071	4641	5079
75°	3896	4574	4650
80°	3559	3971	3748
85°	2910	2837	2462



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.3	2.8
10°-20°	341.8	8.2
20°-30°	529.2	12.7
30°-40°	663.5	15.9
40°-50°	732.5	17.5
50°-60°	722.0	17.3
60°-70°	605.6	14.5
70°-80°	375.0	9.0
80°-90°	93.8	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°	989.2	23.7
0°-40°	1652.7	39.5
0°-60°	3107.3	74.3
0°-90°	4181.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4181.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1235	1239	1245	1247	1247	118
15°	1201	1203	1211	1217	1219	339
25°	1132	1134	1146	1160	1166	521
35°	1032	1036	1056	1081	1093	646
45°	904	912	945	983	1008	697
55°	746	756	800	859	894	664
65°	542	569	616	662	683	538
75°	315	347	370	370	376	332
85°	79	89	77	67	67	93
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1247.4	1247.4	1247.4	1247.4	1247.4
2.5°	1239.3	1243.3	1247.4	1251.4	1251.4
5°	1235.2	1239.3	1245.4	1247.4	1247.4
7.5°	1229.1	1233.2	1239.3	1241.3	1243.3
10°	1223.0	1225.0	1231.1	1235.2	1237.2
12.5°	1210.8	1214.9	1221.0	1227.1	1229.1
15°	1200.7	1202.7	1210.8	1216.9	1218.9
17.5°	1184.4	1188.5	1196.6	1204.7	1206.8
20°	1168.2	1170.2	1180.3	1190.5	1194.6
22.5°	1149.9	1153.9	1164.1	1176.3	1180.3
25°	1131.6	1133.6	1145.8	1160.0	1166.1
27.5°	1107.2	1113.3	1127.5	1139.7	1147.8
30°	1084.9	1088.9	1105.2	1121.4	1129.6
32.5°	1060.5	1064.5	1082.8	1103.1	1111.3
35°	1032.0	1036.1	1056.4	1080.8	1093.0
37.5°	1001.6	1007.7	1030.0	1058.4	1072.7
40°	971.1	977.2	1001.6	1036.1	1052.4
42.5°	938.6	944.7	973.1	1011.7	1030.0
45°	904.0	912.2	944.7	983.3	1007.7
47.5°	867.5	877.6	910.1	958.9	981.2
50°	828.9	837.0	875.6	928.4	956.9
52.5°	786.2	798.4	839.0	898.0	928.4
55°	745.6	755.7	800.4	859.4	893.9
57.5°	696.8	713.1	761.8	818.7	851.2
60°	648.1	666.4	715.1	772.0	802.5
62.5°	597.3	619.6	666.4	721.2	747.6
65°	542.4	568.8	615.6	662.3	682.6
67.5°	491.6	516.0	558.7	595.2	611.5
70°	434.8	461.2	495.7	526.2	542.4
72.5°	373.8	406.3	432.7	449.0	463.2
75°	314.9	347.4	369.7	369.7	375.8
77.5°	258.0	282.4	294.6	290.5	294.6
80°	193.0	217.4	215.3	207.2	203.2
82.5°	134.1	150.3	142.2	130.0	126.0
85°	79.2	89.4	77.2	67.0	67.0
87.5°	32.5	34.5	24.4	18.3	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)