

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: P189631

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189631  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34885)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: BRG-WN-3L40-LD2-UNV-14-STD  
Description: BRIDGE 1x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND NANO PRISM INLAY  
LIGHT LEVEL 3 (865 mA)  
Light Source: (308) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

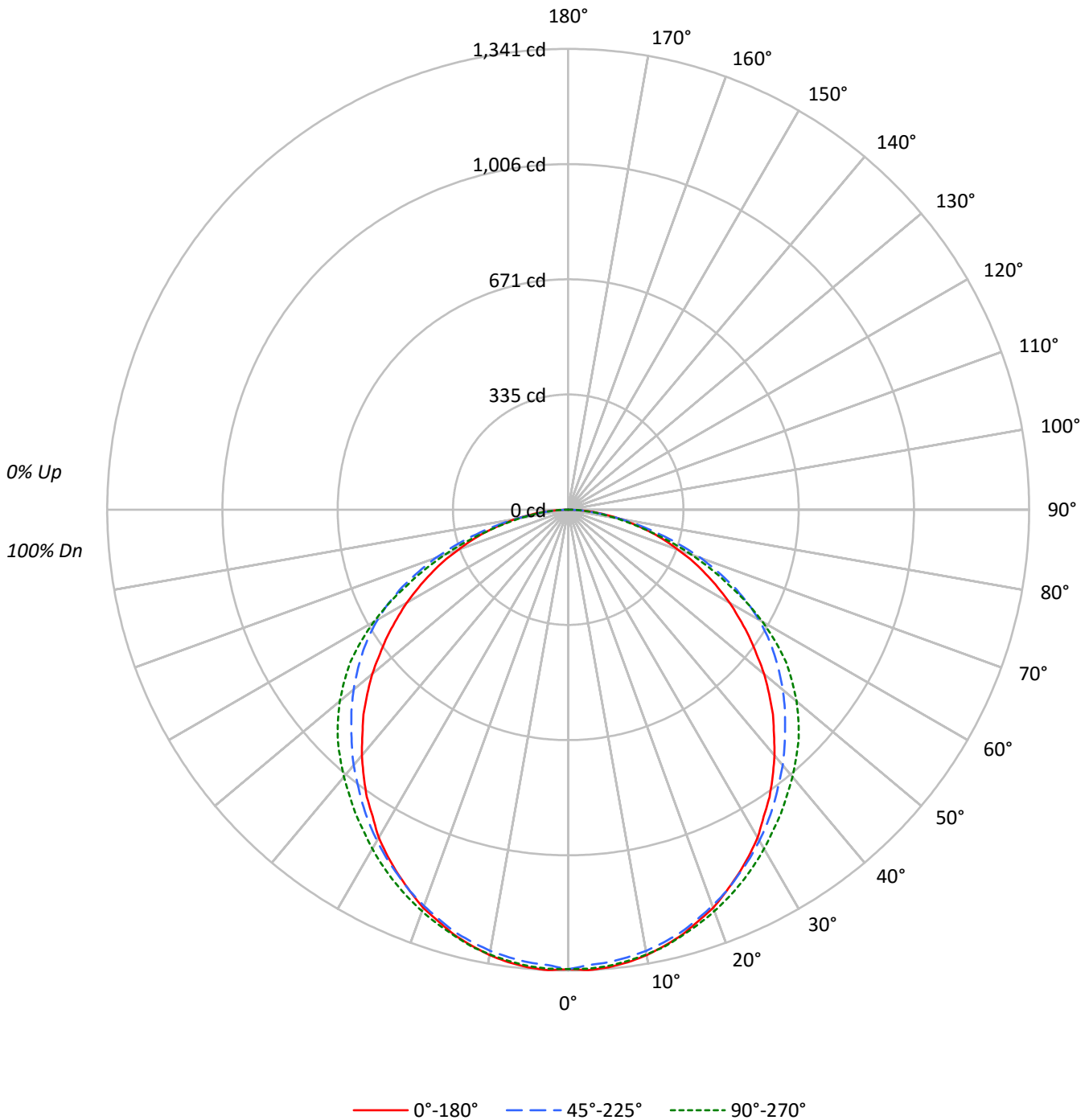
Lumens per Lamp: N/A  
Luminaire Lumens: 3883.5 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')  
CIE Type: Direct

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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	4095	4095	4095
5°	4111	4066	4098
10°	4094	4055	4087
15°	4062	4035	4068
20°	4019	3999	4053
25°	3957	3963	4041
30°	3898	3935	4030
35°	3818	3903	4035
40°	3733	3883	4057
45°	3648	3864	4107
50°	3547	3884	4132
55°	3431	3909	4130
60°	3325	3923	4000
65°	3195	3858	3723
70°	3035	3669	3408
75°	2903	3273	2903
80°	2715	2678	2457
85°	2485	2119	2119



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.4	3.3
10°-20°	360.8	9.3
20°-30°	543.8	14.0
30°-40°	655.6	16.9
40°-50°	690.1	17.8
50°-60°	643.0	16.6
60°-70°	501.9	12.9
70°-80°	286.9	7.4
80°-90°	75.0	1.9
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°	1031.0	26.5
0°-40°	1686.6	43.4
0°-60°	3019.7	77.8
0°-90°	3883.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3883.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1337	1337	1337	1337	1337	
5°	1337	1333	1322	1333	1333	127
15°	1281	1279	1272	1285	1283	361
25°	1171	1171	1173	1191	1196	539
35°	1021	1027	1044	1071	1079	638
45°	842	859	892	934	948	648
55°	642	678	732	765	773	574
65°	441	497	532	524	514	437
75°	245	310	276	254	245	259
85°	71	69	60	58	60	78
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1336.9	1336.9	1336.9	1336.9	1336.9
2.5°	1341.1	1339.0	1326.5	1339.0	1336.9
5°	1336.9	1332.7	1322.3	1332.7	1332.7
7.5°	1328.6	1324.4	1314.0	1326.5	1324.4
10°	1316.1	1314.0	1303.6	1314.0	1314.0
12.5°	1299.5	1297.4	1289.1	1299.5	1301.6
15°	1280.8	1278.7	1272.4	1284.9	1282.8
17.5°	1255.8	1255.8	1249.6	1264.1	1264.1
20°	1232.9	1230.9	1226.7	1241.3	1243.3
22.5°	1201.8	1199.7	1201.8	1218.4	1220.5
25°	1170.6	1170.6	1172.6	1191.4	1195.5
27.5°	1137.3	1139.4	1143.5	1164.3	1168.5
30°	1102.0	1104.0	1112.4	1133.1	1139.4
32.5°	1058.3	1066.6	1079.1	1102.0	1108.2
35°	1020.9	1027.1	1043.7	1070.8	1079.1
37.5°	977.2	985.5	1006.3	1037.5	1045.8
40°	933.5	943.9	971.0	1002.2	1014.6
42.5°	885.7	902.4	931.5	966.8	981.4
45°	842.1	858.7	892.0	933.5	948.1
47.5°	792.2	813.0	854.5	894.0	908.6
50°	744.3	767.2	815.0	854.5	867.0
52.5°	690.3	723.5	773.4	810.9	821.3
55°	642.5	677.8	731.9	765.1	773.4
57.5°	590.5	634.1	688.2	713.2	715.2
60°	542.7	590.5	640.4	652.9	652.9
62.5°	490.7	544.7	588.4	590.5	586.3
65°	440.8	496.9	532.3	523.9	513.6
67.5°	393.0	453.3	469.9	455.3	447.0
70°	338.9	407.5	409.6	386.7	380.5
72.5°	293.2	357.6	343.1	318.1	311.9
75°	245.3	309.8	276.5	253.7	245.3
77.5°	195.4	253.7	214.2	191.3	189.2
80°	153.9	191.3	151.8	137.2	139.3
82.5°	108.1	126.8	99.8	97.7	97.7
85°	70.7	68.6	60.3	58.2	60.3
87.5°	31.2	29.1	27.0	24.9	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)