

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: P189517

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189517
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-4L40-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 4 (735 mA)
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

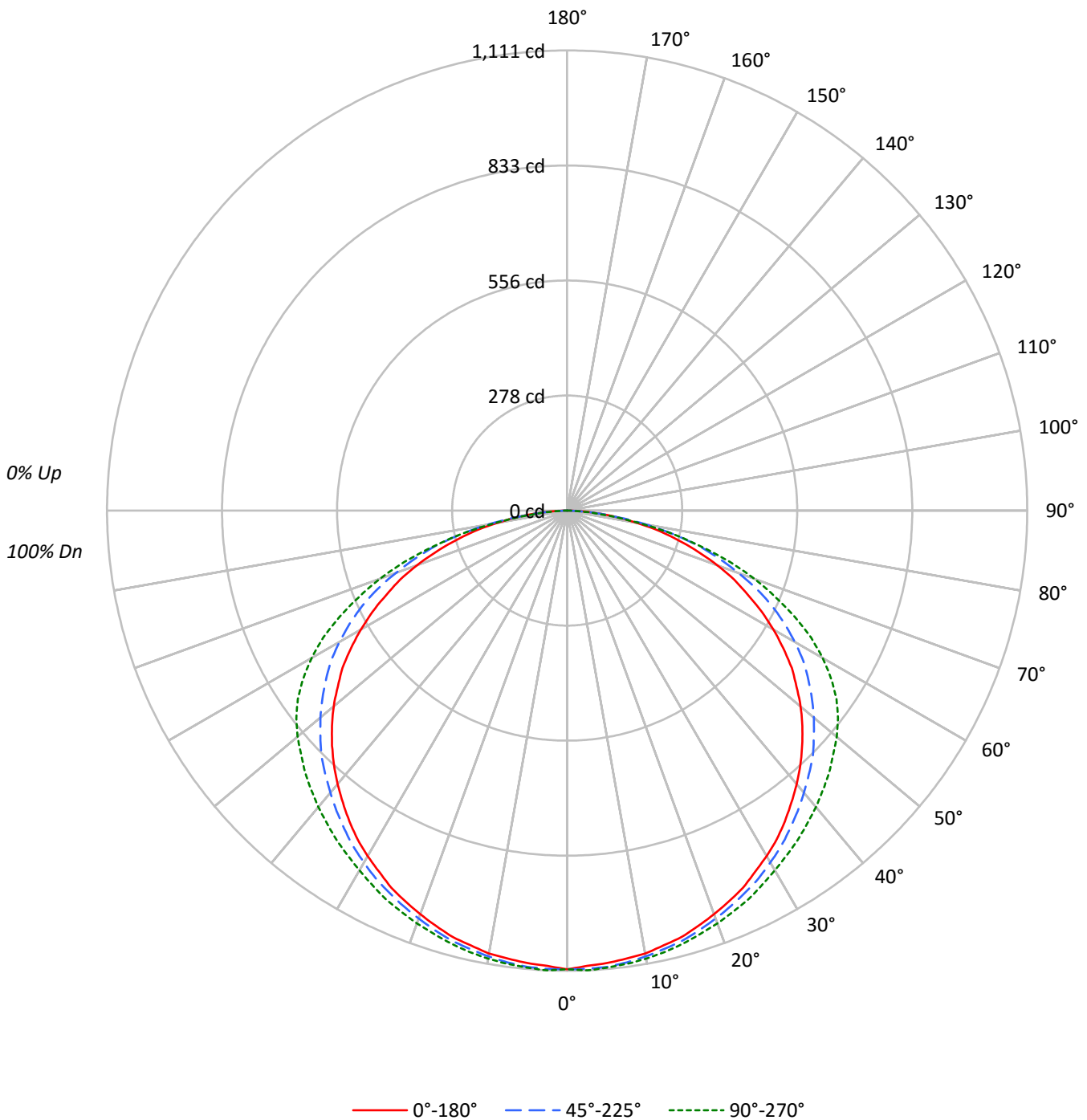
Lumens per Lamp: N/A
Luminaire Lumens: 3712.9 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.36 / 1.47
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 33.8
Input Voltage (V): NR
Input Current (A_{in}): 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	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					100			
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82					82			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67					67			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55					55			
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	47					47			
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40					40			
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	41	37	34					34			
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30					30			
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27					27			
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24					24			
10	51	37	29	24	50	37	29	24	36	28	24	35	28	23	34	28	23	21					21			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3547	3547	3547
5°	3526	3555	3560
10°	3531	3555	3572
15°	3535	3564	3588
20°	3535	3572	3615
25°	3550	3595	3659
30°	3562	3629	3709
35°	3582	3667	3794
40°	3604	3718	3906
45°	3635	3799	4052
50°	3667	3873	4233
55°	3696	3968	4432
60°	3685	4067	4564
65°	3649	4142	4593
70°	3614	4121	4509
75°	3460	4062	4129
80°	3161	3526	3327
85°	2583	2517	2186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	2.8
10°-20°	303.4	8.2
20°-30°	469.9	12.7
30°-40°	589.1	15.9
40°-50°	650.4	17.5
50°-60°	641.1	17.3
60°-70°	537.8	14.5
70°-80°	332.9	9.0
80°-90°	83.3	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°	878.3	23.7
0°-40°	1467.4	39.5
0°-60°	2758.9	74.3
0°-90°	3712.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3712.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1108	1108	1108	1108	1108	
5°	1097	1100	1106	1108	1108	104
15°	1066	1068	1075	1080	1082	301
25°	1005	1006	1017	1030	1035	463
35°	916	920	938	960	970	574
45°	803	810	839	873	895	619
55°	662	671	711	763	794	590
65°	482	505	547	588	606	478
75°	280	308	328	328	334	295
85°	70	79	68	60	60	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1107.5	1107.5	1107.5	1107.5	1107.5
2.5°	1100.3	1103.9	1107.5	1111.1	1111.1
5°	1096.7	1100.3	1105.7	1107.5	1107.5
7.5°	1091.3	1094.9	1100.3	1102.1	1103.9
10°	1085.9	1087.7	1093.1	1096.7	1098.5
12.5°	1075.1	1078.7	1084.1	1089.5	1091.3
15°	1066.1	1067.9	1075.1	1080.5	1082.3
17.5°	1051.6	1055.2	1062.4	1069.7	1071.5
20°	1037.2	1039.0	1048.0	1057.0	1060.6
22.5°	1021.0	1024.6	1033.6	1044.4	1048.0
25°	1004.7	1006.5	1017.4	1030.0	1035.4
27.5°	983.1	988.5	1001.1	1011.9	1019.2
30°	963.2	966.8	981.3	995.7	1002.9
32.5°	941.6	945.2	961.4	979.5	986.7
35°	916.3	919.9	938.0	959.6	970.5
37.5°	889.3	894.7	914.5	939.8	952.4
40°	862.2	867.6	889.3	919.9	934.4
42.5°	833.4	838.8	864.0	898.3	914.5
45°	802.7	809.9	838.8	873.0	894.7
47.5°	770.2	779.2	808.1	851.4	871.2
50°	736.0	743.2	777.4	824.3	849.6
52.5°	698.1	708.9	745.0	797.3	824.3
55°	662.0	671.0	710.7	763.0	793.7
57.5°	618.7	633.1	676.4	726.9	755.8
60°	575.4	591.7	634.9	685.4	712.5
62.5°	530.3	550.2	591.7	640.4	663.8
65°	481.6	505.1	546.6	588.0	606.1
67.5°	436.5	458.2	496.0	528.5	542.9
70°	386.0	409.5	440.1	467.2	481.6
72.5°	331.9	360.8	384.2	398.6	411.3
75°	279.6	308.5	328.3	328.3	333.7
77.5°	229.1	250.7	261.6	257.9	261.6
80°	171.4	193.0	191.2	184.0	180.4
82.5°	119.1	133.5	126.3	115.4	111.8
85°	70.3	79.4	68.5	59.5	59.5
87.5°	28.9	30.7	21.6	16.2	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)