

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: P189659

Luminaire Tested: **BRG-WS-1L40-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34869)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WS-1L40-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 1 (615 mA)
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

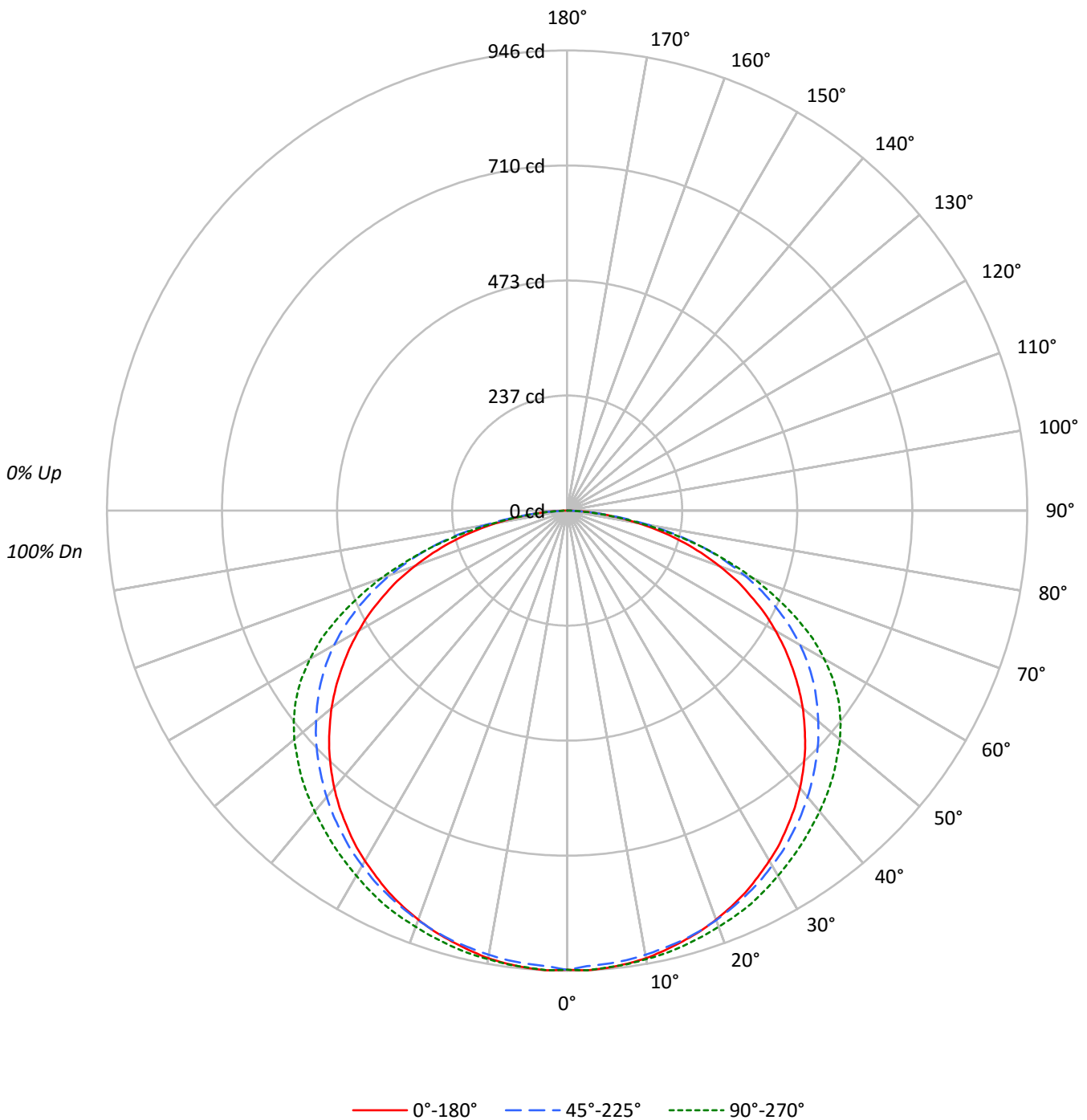
Lumens per Lamp: N/A
Luminaire Lumens: 3210.8 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.37 / 1.48
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 27.1
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	88	86	84	82
2	97	88	81	75	95	87	80	74	83	77	72	80	75	71	76	73	69	67
3	88	77	68	61	86	75	67	61	72	65	60	69	63	58	67	62	57	55
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	46
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	48	41	36	34
7	63	49	39	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	43	35	29	42	34	29	41	34	29	40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26	37	31	26	36	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1446	1446	1446
5°	1451	1438	1450
10°	1453	1442	1457
15°	1454	1450	1469
20°	1459	1460	1484
25°	1465	1474	1509
30°	1470	1491	1533
35°	1478	1512	1568
40°	1489	1537	1614
45°	1498	1568	1674
50°	1507	1606	1745
55°	1511	1652	1819
60°	1516	1695	1870
65°	1510	1722	1877
70°	1488	1731	1824
75°	1436	1701	1683
80°	1314	1489	1379
85°	1044	989	896



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	2.8
10°-20°	259.9	8.1
20°-30°	404.5	12.6
30°-40°	508.7	15.8
40°-50°	562.3	17.5
50°-60°	554.6	17.3
60°-70°	466.4	14.5
70°-80°	291.3	9.1
80°-90°	73.6	2.3
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°	753.9	23.5
0°-40°	1262.6	39.3
0°-60°	2379.4	74.1
0°-90°	3210.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3210.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	944	944	944	944	944	
5°	944	942	936	943	943	90
15°	917	917	915	924	926	259
25°	867	867	872	888	893	400
35°	791	795	808	830	839	495
45°	692	700	724	757	773	534
55°	566	581	619	660	681	506
65°	417	443	475	507	518	413
75°	243	279	288	283	284	256
85°	59	70	56	52	51	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	943.9	943.9	943.9	943.9	943.9
2.5°	946.0	944.9	937.6	944.9	946.0
5°	943.9	941.8	935.5	942.8	942.8
7.5°	939.7	937.6	932.4	939.7	940.8
10°	934.5	932.4	927.2	936.6	936.6
12.5°	926.2	925.1	921.0	930.3	932.4
15°	916.8	916.8	914.7	924.1	926.2
17.5°	907.4	906.4	906.4	917.8	918.9
20°	894.9	894.9	896.0	908.5	910.5
22.5°	881.4	881.4	884.5	899.1	902.2
25°	866.8	866.8	872.0	887.6	892.8
27.5°	849.1	851.2	858.5	875.1	880.3
30°	831.4	833.4	842.8	860.5	866.8
32.5°	812.6	815.7	827.2	846.0	853.2
35°	790.7	794.9	808.4	830.3	838.7
37.5°	768.9	772.0	789.7	813.7	823.0
40°	744.9	749.1	768.9	795.9	807.4
42.5°	718.9	726.1	747.0	777.2	790.7
45°	691.8	700.1	724.1	757.4	773.0
47.5°	662.6	673.0	700.1	736.6	752.2
50°	632.4	642.8	674.1	713.6	732.4
52.5°	600.1	613.6	647.0	688.6	708.4
55°	565.7	581.3	618.8	660.5	681.3
57.5°	531.3	551.1	587.6	629.3	649.0
60°	494.9	514.7	553.2	592.8	610.5
62.5°	458.4	478.2	516.7	552.2	568.8
65°	416.7	442.8	475.1	507.4	517.8
67.5°	378.2	404.2	433.4	456.3	463.6
70°	332.3	363.6	386.5	402.1	407.3
72.5°	288.6	321.9	338.6	341.7	345.9
75°	242.7	279.2	287.5	283.4	284.4
77.5°	196.9	232.3	230.2	220.9	221.9
80°	149.0	181.3	168.8	160.4	156.3
82.5°	102.1	129.2	110.4	100.0	99.0
85°	59.4	69.8	56.3	52.1	51.0
87.5°	24.0	27.1	18.8	13.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)