

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: P189614

Luminaire Tested: **BRG-WD-1L40-LD2-UNV-14-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189614
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-1L40-LD2-UNV-14-STD
Description: BRIDGE 1x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY
LIGHT LEVEL 1 (425 mA)
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

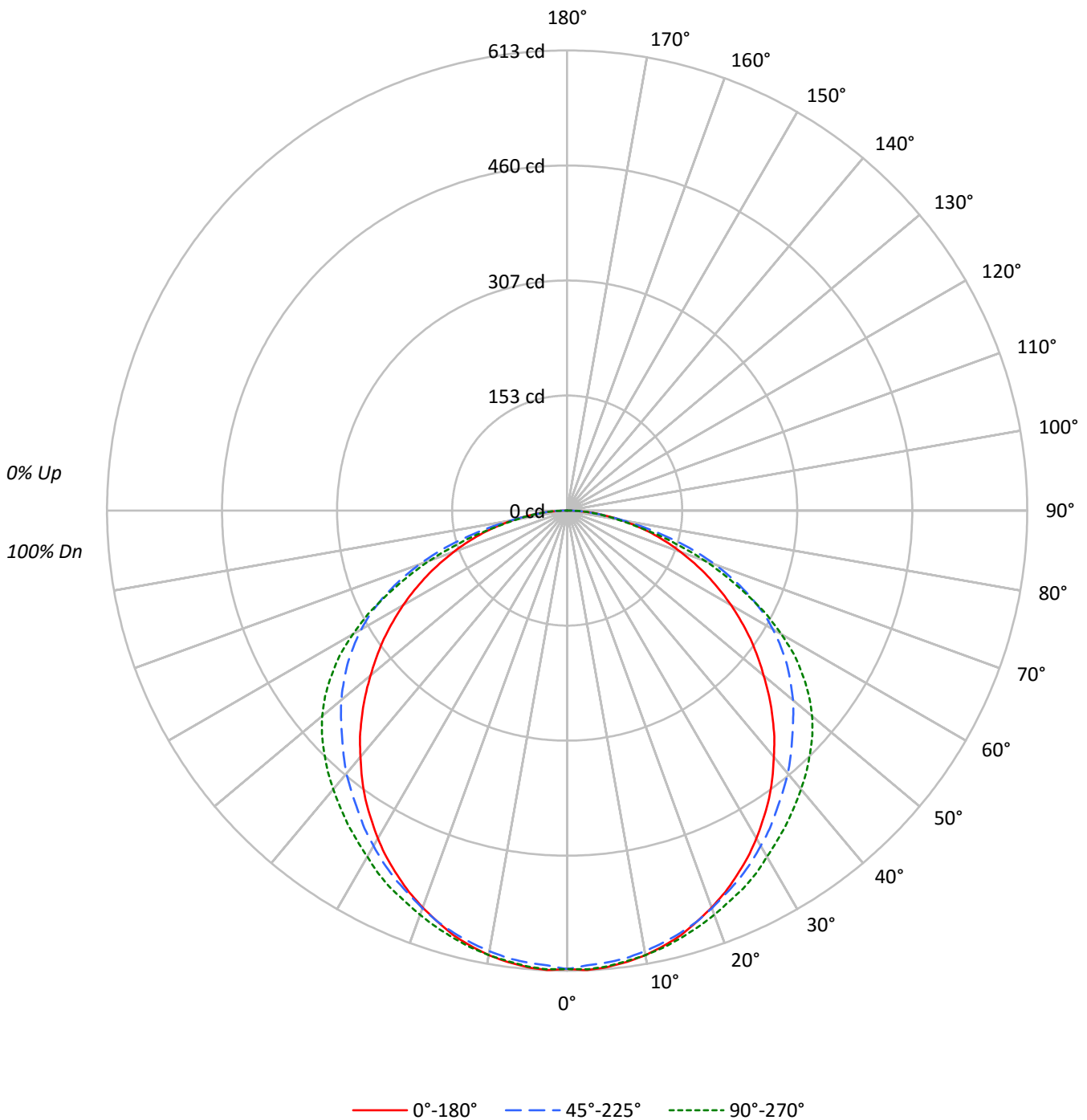
Lumens per Lamp: N/A
Luminaire Lumens: 1852.3 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.41
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 18.7
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



TEST NUMBER: P189614
CATALOG NUMBER: BRG-WD-1L40-LD2-UNV-14-STD

Luminous Intensity Polar Plot





TEST NUMBER: P189614

CATALOG NUMBER: BRG-WD-1L40-LD2-UNV-14-STD

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°	1870	1870	1870
5°	1878	1858	1874
10°	1870	1854	1870
15°	1857	1847	1867
20°	1834	1838	1868
25°	1810	1832	1877
30°	1784	1824	1884
35°	1753	1820	1906
40°	1713	1829	1938
45°	1675	1837	1982
50°	1629	1872	2031
55°	1592	1909	2048
60°	1545	1941	2017
65°	1495	1941	1911
70°	1437	1876	1746
75°	1381	1677	1479
80°	1286	1342	1194
85°	1170	1100	1135



TEST NUMBER: P189614

CATALOG NUMBER: BRG-WD-1L40-LD2-UNV-14-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	3.1
10°-20°	165.3	8.9
20°-30°	250.9	13.5
30°-40°	305.7	16.5
40°-50°	327.3	17.7
50°-60°	312.1	16.8
60°-70°	249.8	13.5
70°-80°	144.6	7.8
80°-90°	38.8	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°	474.0	25.6
0°-40°	779.7	42.1
0°-60°	1419.1	76.6
0°-90°	1852.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1852.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	611	611	611	611	611	
5°	611	610	604	610	610	58
15°	586	585	582	589	589	165
25°	536	538	542	552	555	247
35°	469	473	487	503	510	293
45°	387	399	424	450	458	298
55°	298	322	357	379	384	266
65°	206	243	268	267	264	204
75°	117	155	142	129	125	123
85°	33	35	31	32	32	37
90°	0	0	0	0	0	



TEST NUMBER: P189614

CATALOG NUMBER: BRG-WD-1L40-LD2-UNV-14-STD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	610.6	610.6	610.6	610.6	610.6
2.5°	612.7	611.7	606.5	610.6	611.7
5°	610.6	609.6	604.4	609.6	609.6
7.5°	606.5	605.4	601.3	606.5	605.4
10°	601.3	600.2	596.0	601.3	601.3
12.5°	594.0	592.9	589.8	596.0	596.0
15°	585.6	584.6	582.5	588.8	588.8
17.5°	574.2	574.2	574.2	580.4	581.5
20°	562.7	563.7	563.7	572.1	573.1
22.5°	550.2	551.2	552.3	562.7	563.7
25°	535.6	537.7	541.9	552.3	555.4
27.5°	521.0	523.1	529.4	540.8	545.0
30°	504.3	506.4	515.8	528.3	532.5
32.5°	486.6	490.8	502.3	515.8	521.0
35°	468.9	473.1	486.6	503.3	509.6
37.5°	449.1	455.4	472.0	490.8	497.1
40°	428.3	437.7	457.5	478.3	484.6
42.5°	408.5	417.9	440.8	463.7	472.0
45°	386.6	399.1	424.1	450.2	457.5
47.5°	364.7	379.3	408.5	434.5	442.9
50°	341.8	360.5	392.9	417.9	426.2
52.5°	319.9	340.7	375.1	399.1	406.4
55°	298.0	322.0	357.4	379.3	383.5
57.5°	275.1	302.2	337.6	356.4	359.5
60°	252.2	282.4	316.8	329.3	329.3
62.5°	229.2	262.6	293.9	300.1	299.1
65°	206.3	242.8	267.8	266.8	263.6
67.5°	183.4	223.0	239.7	232.4	229.2
70°	160.5	201.1	209.5	198.0	194.9
72.5°	138.6	180.3	177.1	163.6	158.4
75°	116.7	155.3	141.7	129.2	125.0
77.5°	93.8	130.3	108.4	95.9	91.7
80°	72.9	100.0	76.1	68.8	67.7
82.5°	52.1	65.6	50.0	49.0	49.0
85°	33.3	35.4	31.3	32.3	32.3
87.5°	14.6	15.6	16.7	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)