

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: P189550

Luminaire Tested: **BRG-WD-1L40-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34970)
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-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY
LIGHT LEVEL 1 (408 mA)
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

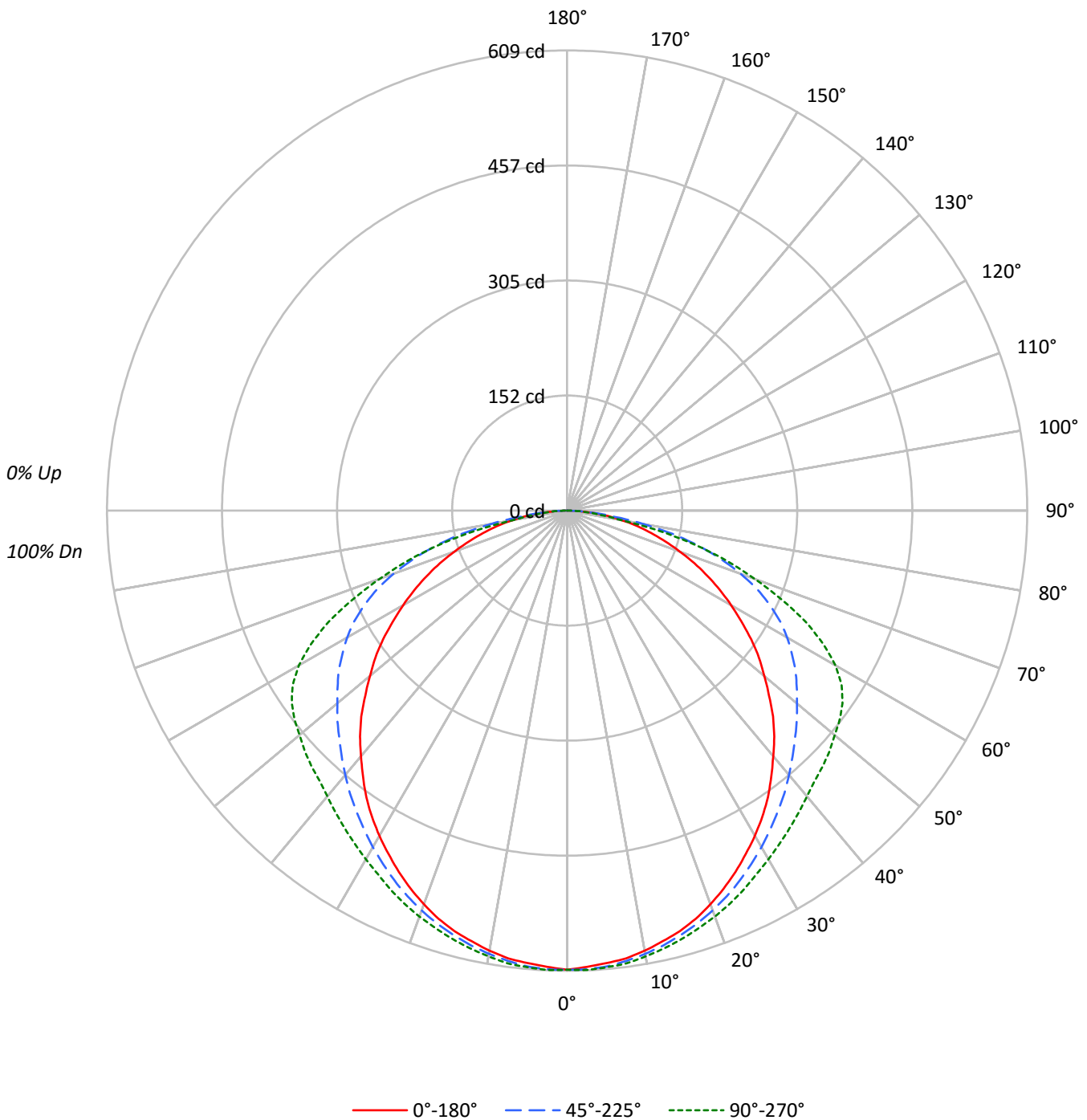
Lumens per Lamp: N/A
Luminaire Lumens: 1934.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 18.6
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	101	96	93	96	93	90	92	89	87	89	86	84	82
2	97	89	81	75	95	87	80	74	83	77	73	80	75	71	77	73	69	67
3	88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	56	50	62	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	30
8	59	45	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	29	24	50	37	29	24	36	29	24	35	28	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1946	1946	1946
5°	1932	1947	1950
10°	1923	1937	1948
15°	1910	1928	1946
20°	1890	1919	1949
25°	1864	1910	1955
30°	1838	1902	1970
35°	1811	1900	2006
40°	1774	1910	2064
45°	1745	1931	2167
50°	1697	1978	2303
55°	1660	2060	2484
60°	1606	2155	2627
65°	1554	2245	2639
70°	1483	2286	2469
75°	1423	2228	2175
80°	1361	1901	1341
85°	1198	1275	996



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	3.0
10°-20°	164.1	8.5
20°-30°	249.1	12.9
30°-40°	305.1	15.8
40°-50°	331.4	17.1
50°-60°	330.0	17.1
60°-70°	282.8	14.6
70°-80°	172.8	8.9
80°-90°	41.1	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°	470.7	24.3
0°-40°	775.8	40.1
0°-60°	1437.2	74.3
0°-90°	1934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1934.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	608	608	608	608	608	
5°	601	603	606	607	607	57
15°	576	577	582	586	587	162
25°	527	531	540	549	553	243
35°	463	469	486	505	513	289
45°	385	396	426	460	478	296
55°	297	320	369	419	445	265
65°	205	243	296	334	348	203
75°	115	158	180	180	176	122
85°	33	43	35	29	27	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	607.7	607.7	607.7	607.7	607.7
2.5°	604.4	605.5	607.7	608.7	608.7
5°	601.1	603.3	605.5	606.6	606.6
7.5°	597.9	599.0	601.1	603.3	604.4
10°	591.4	592.5	595.7	599.0	599.0
12.5°	583.8	586.0	589.2	592.5	593.5
15°	576.2	577.3	581.6	586.0	587.0
17.5°	566.4	567.5	572.9	578.4	579.4
20°	554.5	556.7	563.2	568.6	571.8
22.5°	541.5	543.6	552.3	559.9	563.2
25°	527.4	530.6	540.4	549.1	553.4
27.5°	512.2	516.5	527.4	538.2	542.5
30°	497.0	501.3	514.3	527.4	532.8
32.5°	480.7	486.1	500.2	515.4	523.0
35°	463.3	468.8	486.1	504.6	513.2
37.5°	443.8	452.5	472.0	493.7	503.5
40°	424.3	434.0	456.8	481.8	493.7
42.5°	405.8	415.6	441.6	470.9	485.0
45°	385.2	396.1	426.4	460.1	478.5
47.5°	362.4	377.6	412.3	450.3	470.9
50°	340.7	358.1	397.1	440.5	462.3
52.5°	320.1	339.6	383.0	430.8	454.7
55°	297.3	320.1	368.9	418.8	444.9
57.5°	273.4	300.6	352.7	404.7	430.8
60°	250.7	281.0	336.4	387.4	410.2
62.5°	227.9	263.7	317.9	364.6	382.0
65°	205.1	243.1	296.2	334.2	348.3
67.5°	182.3	224.6	272.4	299.5	307.1
70°	158.4	202.9	244.1	260.4	263.7
72.5°	136.7	181.2	213.8	221.4	222.4
75°	115.0	158.4	180.1	180.1	175.8
77.5°	95.5	132.4	143.2	134.6	127.0
80°	73.8	102.0	103.1	83.6	72.7
82.5°	53.2	72.7	64.0	49.9	44.5
85°	32.6	43.4	34.7	29.3	27.1
87.5°	11.9	14.1	11.9	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)