

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: P189691

Luminaire Tested: **BRG-WD-3L40-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34875)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WD-3L40-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY
LIGHT LEVEL 3 (1040 mA)
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

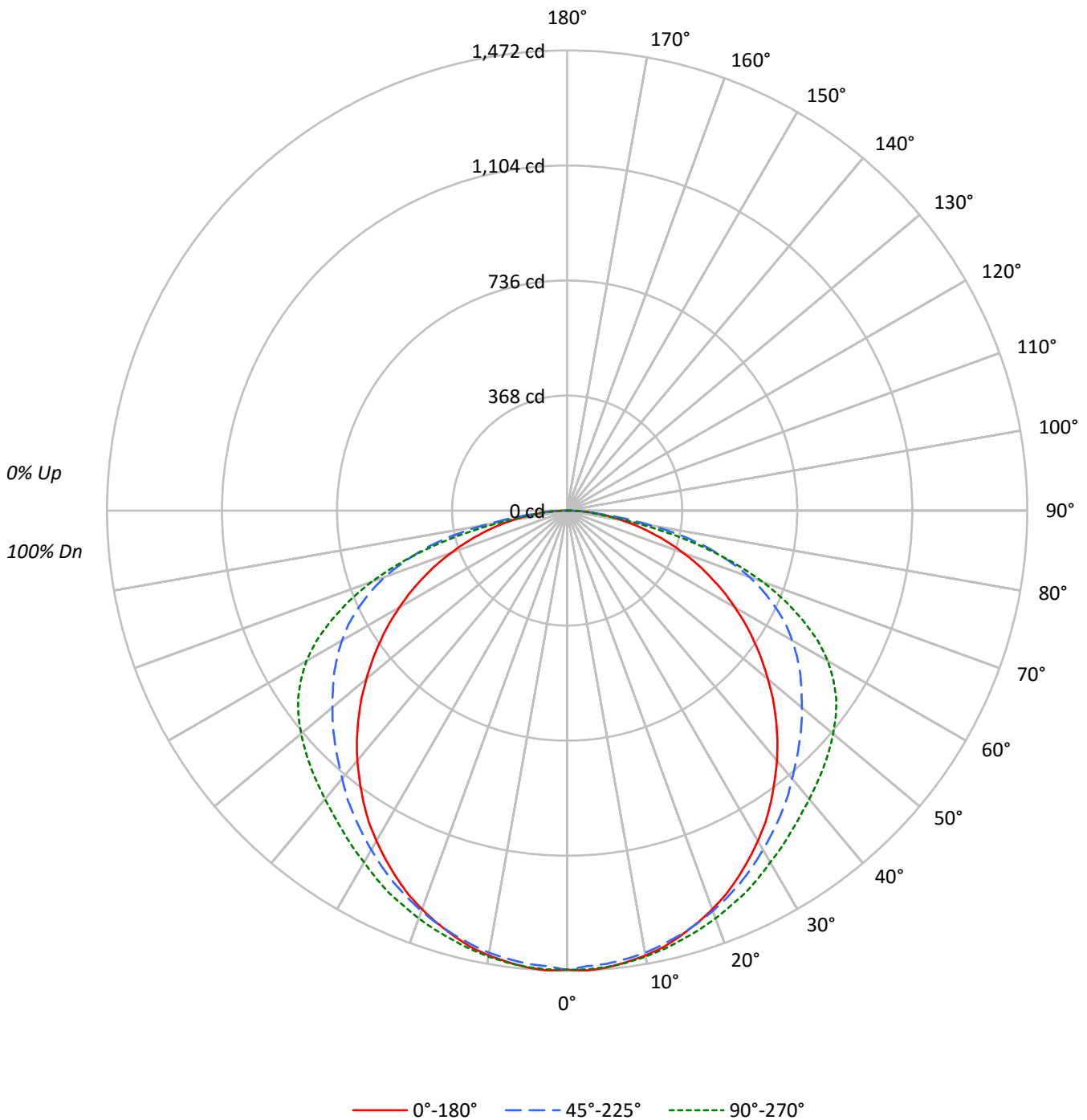
Lumens per Lamp: N/A
Luminaire Lumens: 4770.3 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.43
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 47.2
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	92	89	92	89	87	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	79	75	70	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	59	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	38	51	43	37	49	42	37	48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2250	2250	2250
5°	2256	2237	2253
10°	2247	2234	2253
15°	2231	2226	2253
20°	2213	2221	2263
25°	2187	2219	2280
30°	2158	2216	2298
35°	2125	2224	2340
40°	2087	2238	2409
45°	2046	2276	2513
50°	1997	2336	2647
55°	1950	2431	2806
60°	1896	2546	2951
65°	1839	2671	3019
70°	1765	2779	2978
75°	1674	2800	2668
80°	1557	2404	1814
85°	1446	1506	1325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.0	2.9
10°-20°	398.4	8.4
20°-30°	607.7	12.7
30°-40°	746.9	15.7
40°-50°	813.0	17.0
50°-60°	805.6	16.9
60°-70°	699.0	14.7
70°-80°	447.9	9.4
80°-90°	112.8	2.4
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°	1145.1	24.0
0°-40°	1892.0	39.7
0°-60°	3510.6	73.6
0°-90°	4770.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4770.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1469	1469	1469	1469	1469	
5°	1467	1464	1455	1464	1466	139
15°	1407	1407	1404	1419	1421	397
25°	1294	1299	1313	1339	1349	596
35°	1136	1150	1190	1234	1251	711
45°	944	979	1051	1128	1160	729
55°	730	797	910	1011	1051	653
65°	507	615	737	814	833	503
75°	283	420	473	464	451	300
85°	82	127	86	75	75	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1468.9	1468.9	1468.9	1468.9	1468.9
2.5°	1472.4	1468.9	1458.7	1468.9	1468.9
5°	1467.2	1463.8	1455.2	1463.8	1465.5
7.5°	1456.9	1455.2	1446.7	1456.9	1458.7
10°	1444.9	1441.5	1436.4	1446.7	1448.4
12.5°	1429.5	1426.1	1420.9	1434.7	1436.4
15°	1407.2	1407.2	1403.8	1419.2	1420.9
17.5°	1383.2	1384.9	1384.9	1402.1	1405.5
20°	1357.5	1359.2	1362.7	1383.2	1388.4
22.5°	1328.4	1330.1	1338.7	1362.7	1367.8
25°	1294.1	1299.2	1313.0	1338.7	1349.0
27.5°	1258.1	1265.0	1283.8	1313.0	1325.0
30°	1220.4	1229.0	1253.0	1289.0	1299.2
32.5°	1181.0	1191.3	1222.1	1261.5	1277.0
35°	1136.4	1150.1	1189.5	1234.1	1251.3
37.5°	1090.1	1109.0	1157.0	1208.4	1227.3
40°	1043.9	1066.1	1119.3	1181.0	1205.0
42.5°	995.9	1023.3	1085.0	1153.6	1182.7
45°	944.4	978.7	1050.7	1127.8	1160.4
47.5°	893.0	932.4	1016.4	1100.4	1136.4
50°	838.2	887.9	980.4	1071.3	1110.7
52.5°	785.0	839.9	944.4	1042.1	1083.3
55°	730.2	797.0	910.2	1011.3	1050.7
57.5°	677.0	750.8	872.4	971.9	1009.6
60°	618.8	706.2	831.3	927.3	963.3
62.5°	565.6	661.6	788.5	875.9	905.0
65°	507.4	615.3	737.0	814.2	833.0
67.5°	452.5	570.8	682.2	738.8	754.2
70°	394.2	526.2	620.5	661.6	665.0
72.5°	339.4	474.8	548.5	563.9	562.2
75°	282.8	419.9	473.1	464.5	450.8
77.5°	231.4	361.7	380.5	348.0	332.5
80°	176.5	296.5	272.5	221.1	205.7
82.5°	128.6	221.1	164.5	126.8	118.3
85°	82.3	126.8	85.7	75.4	75.4
87.5°	39.4	48.0	39.4	39.4	39.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)