

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: P189706

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34876)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WN-3L40-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND NANO PRISM INLAY
LIGHT LEVEL 3 (1040 mA)
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

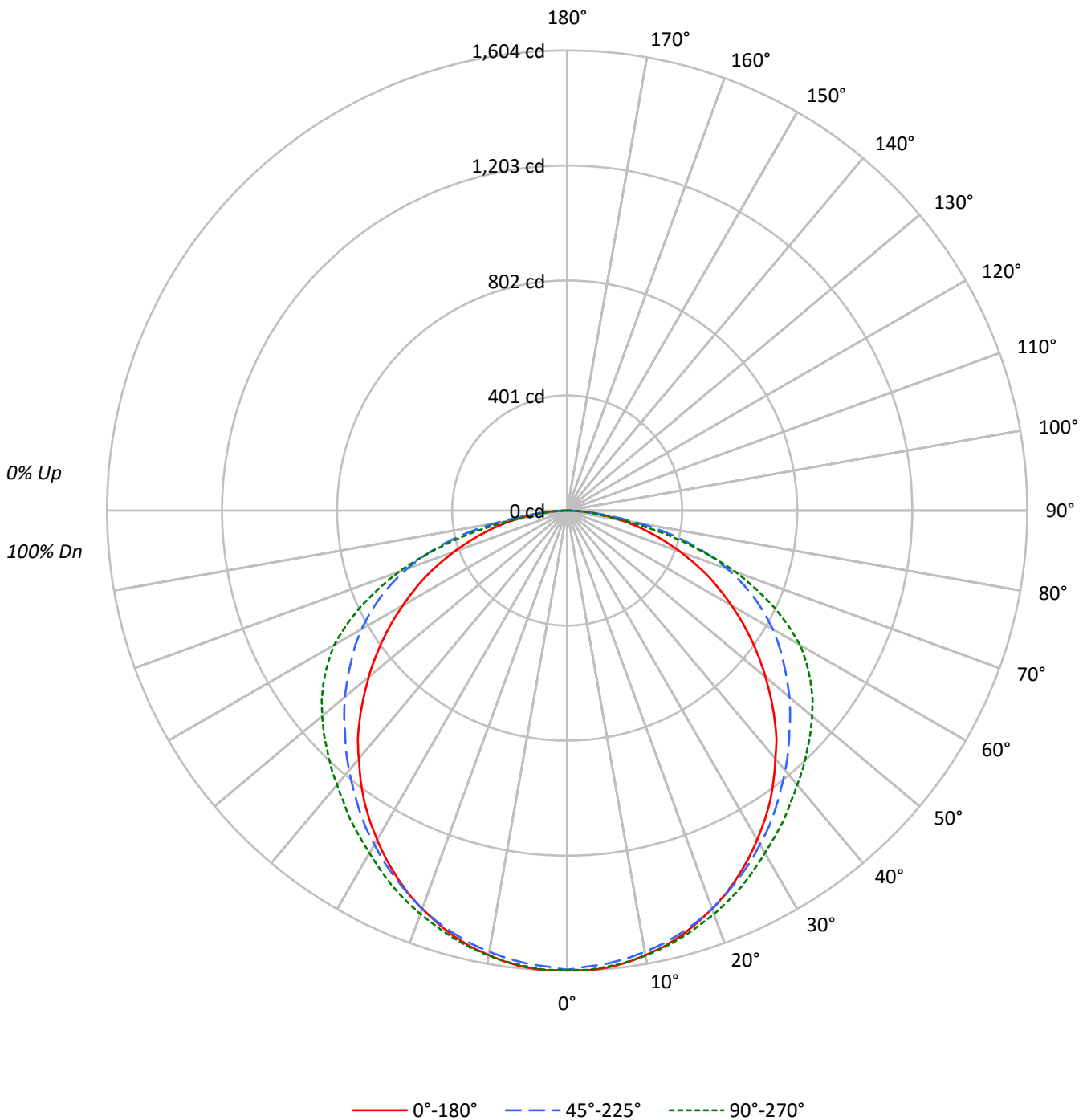
Lumens per Lamp: N/A
Luminaire Lumens: 4929.8 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	101	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68	63	58	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		49	42	38	35
7	63	49	40	34	62	49	40	34	47	39	34		46	39	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27		38	32	27		37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24		36	29	24		35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2452	2452	2452
5°	2459	2438	2454
10°	2448	2429	2450
15°	2433	2419	2444
20°	2409	2409	2439
25°	2378	2390	2439
30°	2344	2377	2437
35°	2308	2369	2462
40°	2259	2365	2495
45°	2213	2373	2562
50°	2153	2410	2655
55°	2092	2458	2765
60°	2027	2536	2872
65°	1969	2609	2883
70°	1881	2664	2794
75°	1775	2607	2475
80°	1664	2268	1723
85°	1506	1446	1235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	3.1
10°-20°	432.9	8.8
20°-30°	655.3	13.3
30°-40°	795.7	16.1
40°-50°	849.6	17.2
50°-60°	819.8	16.6
60°-70°	688.2	14.0
70°-80°	428.7	8.7
80°-90°	108.1	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°	1239.6	25.1
0°-40°	2035.2	41.3
0°-60°	3704.7	75.1
0°-90°	4929.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4929.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1601	1601	1601	1601	1601	
5°	1599	1596	1586	1596	1596	152
15°	1534	1532	1526	1539	1541	433
25°	1407	1409	1414	1436	1443	648
35°	1234	1241	1267	1301	1316	771
45°	1022	1044	1095	1157	1183	787
55°	783	833	920	1003	1035	701
65°	543	626	720	776	795	536
75°	300	410	441	430	418	318
85°	86	120	82	72	70	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1601.1	1601.1	1601.1	1601.1	1601.1
2.5°	1604.5	1601.1	1590.8	1601.1	1602.8
5°	1599.4	1596.0	1585.7	1596.0	1596.0
7.5°	1589.1	1585.7	1575.4	1587.4	1587.4
10°	1573.7	1572.0	1561.7	1575.4	1575.4
12.5°	1556.5	1554.8	1546.2	1560.0	1560.0
15°	1534.2	1532.5	1525.7	1539.4	1541.1
17.5°	1506.8	1506.8	1503.4	1517.1	1518.8
20°	1477.7	1477.7	1477.7	1494.8	1496.5
22.5°	1445.1	1443.4	1446.8	1465.7	1470.8
25°	1407.4	1409.1	1414.2	1436.5	1443.4
27.5°	1368.0	1371.4	1381.7	1405.7	1410.8
30°	1325.1	1330.2	1344.0	1371.4	1378.2
32.5°	1280.5	1287.4	1308.0	1335.4	1347.4
35°	1234.2	1241.1	1266.8	1301.1	1316.5
37.5°	1182.8	1193.1	1224.0	1266.8	1280.5
40°	1129.7	1145.1	1182.8	1229.1	1248.0
42.5°	1080.0	1095.4	1140.0	1193.1	1217.1
45°	1021.7	1044.0	1095.4	1157.1	1182.8
47.5°	961.7	992.5	1054.3	1119.4	1150.3
50°	903.4	937.7	1011.4	1083.4	1114.3
52.5°	843.4	888.0	965.1	1044.0	1078.3
55°	783.4	833.1	920.5	1002.8	1035.4
57.5°	723.4	785.1	876.0	956.5	989.1
60°	661.7	732.0	828.0	905.1	937.7
62.5°	601.7	678.8	774.8	845.1	869.1
65°	543.4	625.7	720.0	776.5	795.4
67.5°	480.0	574.3	660.0	702.8	709.7
70°	420.0	522.8	594.8	618.8	624.0
72.5°	358.3	469.7	522.8	526.3	522.8
75°	300.0	409.7	440.6	430.3	418.3
77.5°	243.4	348.0	354.8	322.3	310.3
80°	188.6	281.1	257.1	216.0	195.4
82.5°	133.7	207.4	159.4	126.9	118.3
85°	85.7	120.0	82.3	72.0	70.3
87.5°	39.4	44.6	34.3	30.9	30.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)