

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: P189707

Luminaire Tested: **BRG-WN-4L40-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189707
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-4L40-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND NANO PRISM INLAY
LIGHT LEVEL 4 (1260 mA)
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

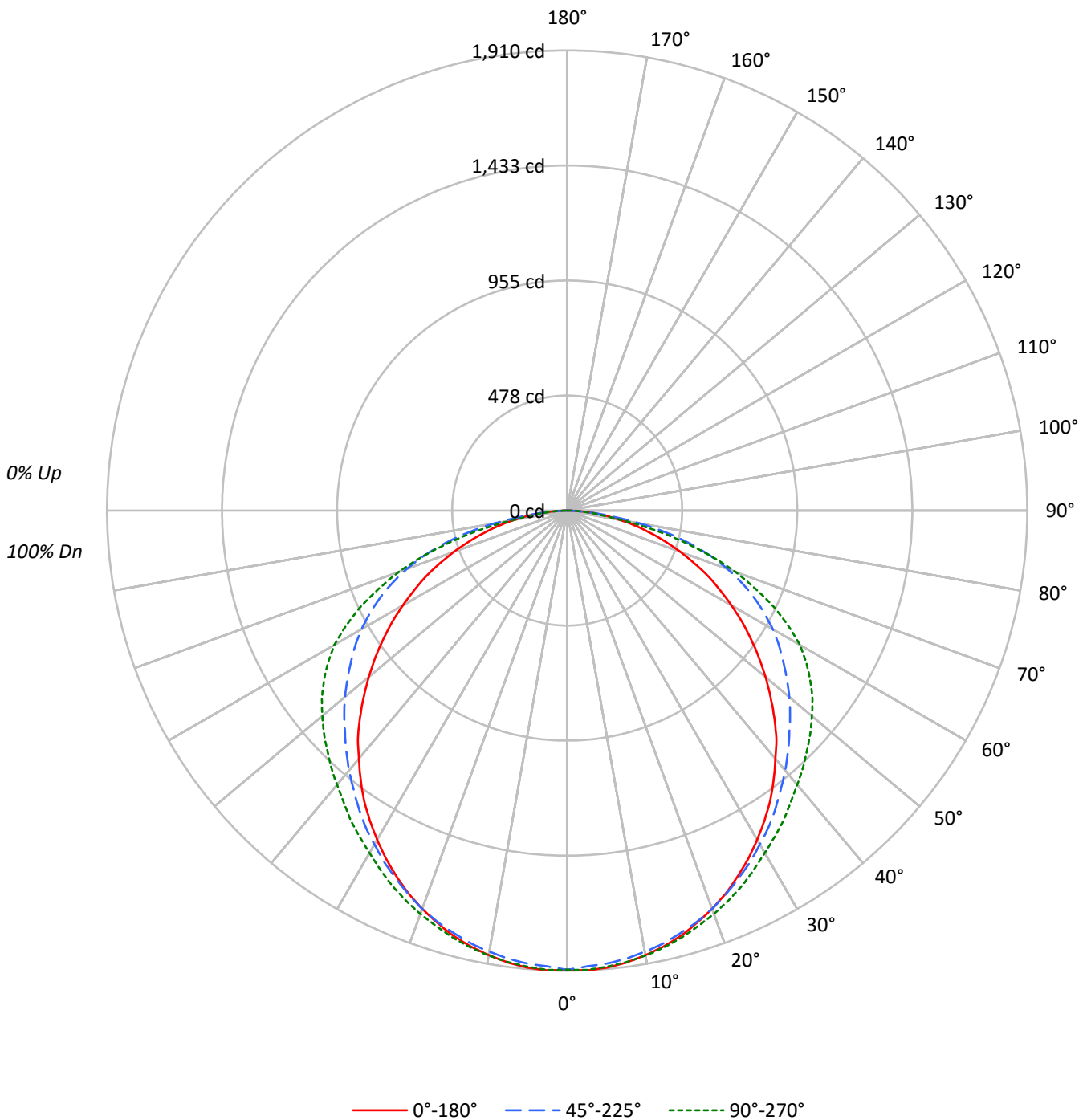
Lumens per Lamp: N/A
Luminaire Lumens: 5868.8 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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°	2919	2919	2919
5°	2928	2902	2921
10°	2914	2892	2917
15°	2896	2880	2909
20°	2867	2867	2904
25°	2832	2845	2904
30°	2790	2830	2902
35°	2747	2820	2930
40°	2689	2815	2971
45°	2635	2825	3050
50°	2563	2869	3161
55°	2490	2926	3291
60°	2413	3019	3420
65°	2344	3106	3432
70°	2239	3171	3326
75°	2113	3104	2947
80°	1980	2700	2052
85°	1792	1722	1471



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.2	3.1
10°-20°	515.3	8.8
20°-30°	780.1	13.3
30°-40°	947.2	16.1
40°-50°	1011.5	17.2
50°-60°	976.0	16.6
60°-70°	819.3	14.0
70°-80°	510.4	8.7
80°-90°	128.7	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°	1475.7	25.1
0°-40°	2422.9	41.3
0°-60°	4410.4	75.1
0°-90°	5868.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5868.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1906	1906	1906	1906	1906	
5°	1904	1900	1888	1900	1900	181
15°	1826	1824	1816	1833	1835	515
25°	1676	1678	1684	1710	1718	772
35°	1469	1478	1508	1549	1567	918
45°	1216	1243	1304	1378	1408	937
55°	933	992	1096	1194	1233	834
65°	647	745	857	924	947	638
75°	357	488	524	512	498	379
85°	102	143	98	86	84	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1906.1	1906.1	1906.1	1906.1	1906.1
2.5°	1910.2	1906.1	1893.8	1906.1	1908.1
5°	1904.1	1900.0	1887.7	1900.0	1900.0
7.5°	1891.8	1887.7	1875.5	1889.8	1889.8
10°	1873.4	1871.4	1859.2	1875.5	1875.5
12.5°	1853.0	1851.0	1840.8	1857.1	1857.1
15°	1826.5	1824.5	1816.3	1832.6	1834.7
17.5°	1793.9	1793.9	1789.8	1806.1	1808.1
20°	1759.2	1759.2	1759.2	1779.6	1781.6
22.5°	1720.4	1718.3	1722.4	1744.9	1751.0
25°	1675.5	1677.5	1683.6	1710.2	1718.3
27.5°	1628.5	1632.6	1644.9	1673.4	1679.6
30°	1577.5	1583.6	1600.0	1632.6	1640.8
32.5°	1524.5	1532.6	1557.1	1589.8	1604.1
35°	1469.4	1477.5	1508.1	1549.0	1567.3
37.5°	1408.1	1420.4	1457.1	1508.1	1524.5
40°	1344.9	1363.2	1408.1	1463.2	1485.7
42.5°	1285.7	1304.1	1357.1	1420.4	1449.0
45°	1216.3	1242.8	1304.1	1377.5	1408.1
47.5°	1144.9	1181.6	1255.1	1332.6	1369.4
50°	1075.5	1116.3	1204.1	1289.8	1326.5
52.5°	1004.1	1057.1	1149.0	1242.8	1283.7
55°	932.6	991.8	1095.9	1193.9	1232.6
57.5°	861.2	934.7	1042.8	1138.8	1177.5
60°	787.7	871.4	985.7	1077.5	1116.3
62.5°	716.3	808.2	922.4	1006.1	1034.7
65°	646.9	744.9	857.1	924.5	946.9
67.5°	571.4	683.7	785.7	836.7	844.9
70°	500.0	622.4	708.2	736.7	742.8
72.5°	426.5	559.2	622.4	626.5	622.4
75°	357.1	487.7	524.5	512.2	498.0
77.5°	289.8	414.3	422.4	383.7	369.4
80°	224.5	334.7	306.1	257.1	232.6
82.5°	159.2	246.9	189.8	151.0	140.8
85°	102.0	142.9	98.0	85.7	83.7
87.5°	46.9	53.1	40.8	36.7	36.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)