

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: P189695

Luminaire Tested: **BRG-WN-2L30-LD2-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189695  
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-2L30-LD2-UNV-24-STD  
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND NANO PRISM INLAY  
LIGHT LEVEL 2 (820 mA)  
Light Source: (308) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

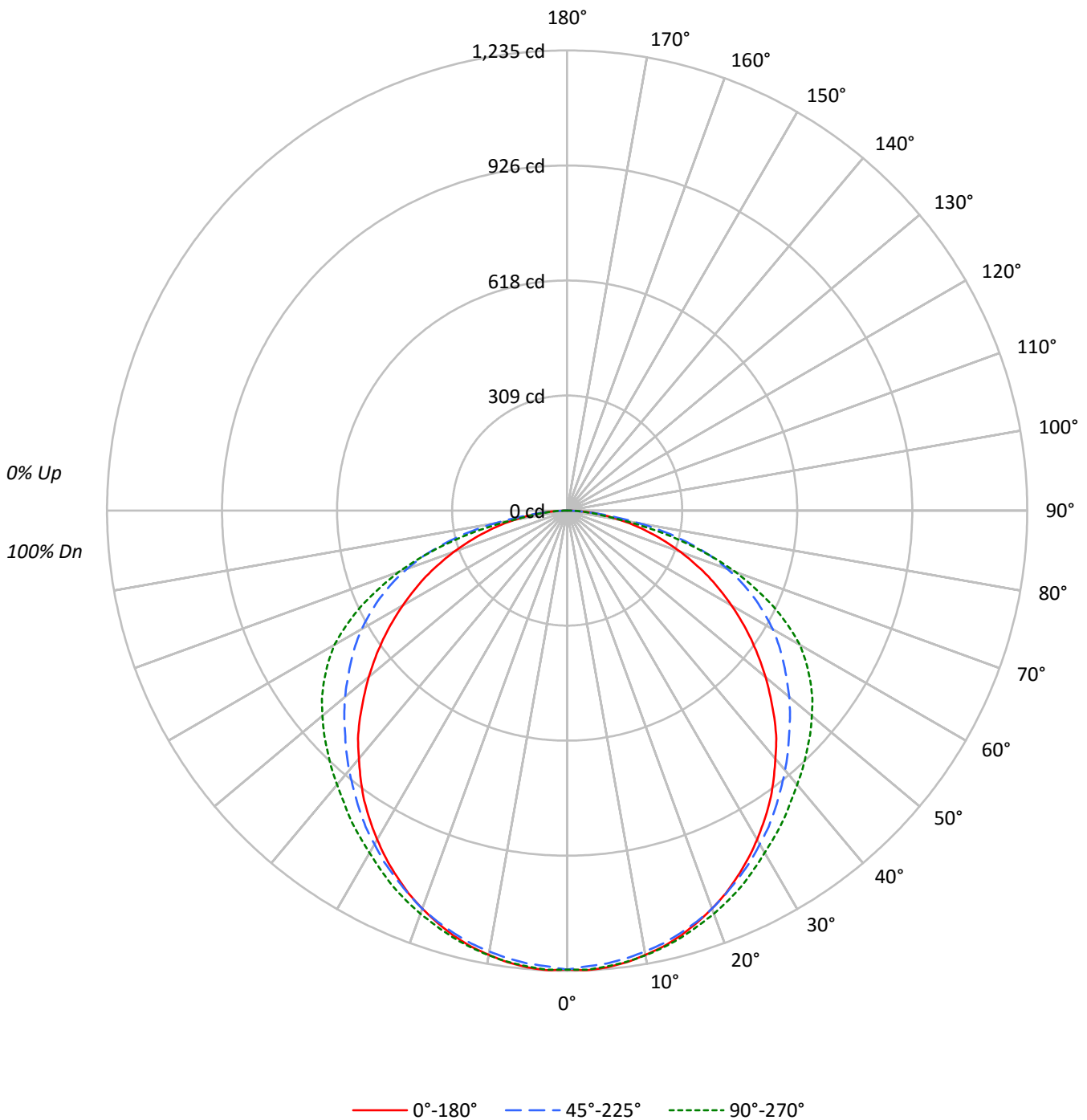
Lumens per Lamp: N/A  
Luminaire Lumens: 3793.3 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P189695

CATALOG NUMBER: BRG-WN-2L30-LD2-UNV-24-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P189695

CATALOG NUMBER: BRG-WN-2L30-LD2-UNV-24-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	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°	1887	1887	1887
5°	1892	1876	1888
10°	1883	1869	1885
15°	1872	1862	1880
20°	1853	1853	1877
25°	1830	1839	1877
30°	1803	1829	1876
35°	1776	1823	1894
40°	1738	1820	1920
45°	1703	1826	1971
50°	1656	1854	2043
55°	1610	1891	2127
60°	1560	1952	2210
65°	1515	2008	2218
70°	1447	2050	2150
75°	1366	2006	1904
80°	1280	1746	1327
85°	1160	1112	951



TEST NUMBER: P189695

CATALOG NUMBER: BRG-WN-2L30-LD2-UNV-24-STD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.5	3.1
10°-20°	333.1	8.8
20°-30°	504.2	13.3
30°-40°	612.2	16.1
40°-50°	653.8	17.2
50°-60°	630.8	16.6
60°-70°	529.6	14.0
70°-80°	329.9	8.7
80°-90°	83.2	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°	953.8	25.1
0°-40°	1566.0	41.3
0°-60°	2850.6	75.1
0°-90°	3793.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3793.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1232	1232	1232	1232	1232	
5°	1231	1228	1220	1228	1228	117
15°	1180	1179	1174	1184	1186	333
25°	1083	1084	1088	1105	1111	499
35°	950	955	975	1001	1013	593
45°	786	803	843	890	910	606
55°	603	641	708	772	797	539
65°	418	482	554	598	612	412
75°	231	315	339	331	322	245
85°	66	92	63	55	54	74
90°	0	0	0	0	0	



TEST NUMBER: P189695

CATALOG NUMBER: BRG-WN-2L30-LD2-UNV-24-STD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1232.0	1232.0	1232.0	1232.0	1232.0
2.5°	1234.6	1232.0	1224.1	1232.0	1233.3
5°	1230.7	1228.0	1220.1	1228.0	1228.0
7.5°	1222.8	1220.1	1212.2	1221.4	1221.4
10°	1210.9	1209.6	1201.7	1212.2	1212.2
12.5°	1197.7	1196.4	1189.8	1200.3	1200.3
15°	1180.5	1179.2	1174.0	1184.5	1185.8
17.5°	1159.4	1159.4	1156.8	1167.4	1168.7
20°	1137.0	1137.0	1137.0	1150.2	1151.5
22.5°	1112.0	1110.6	1113.3	1127.8	1131.7
25°	1082.9	1084.3	1088.2	1105.4	1110.6
27.5°	1052.6	1055.2	1063.2	1081.6	1085.6
30°	1019.6	1023.6	1034.1	1055.2	1060.5
32.5°	985.3	990.6	1006.4	1027.5	1036.8
35°	949.7	955.0	974.8	1001.2	1013.0
37.5°	910.1	918.1	941.8	974.8	985.3
40°	869.3	881.1	910.1	945.8	960.3
42.5°	831.0	842.9	877.2	918.1	936.5
45°	786.2	803.3	842.9	890.4	910.1
47.5°	740.0	763.7	811.2	861.3	885.1
50°	695.1	721.5	778.2	833.6	857.4
52.5°	649.0	683.3	742.6	803.3	829.7
55°	602.8	641.1	708.3	771.6	796.7
57.5°	556.6	604.1	674.0	736.0	761.1
60°	509.2	563.2	637.1	696.5	721.5
62.5°	463.0	522.3	596.2	650.3	668.8
65°	418.1	481.5	554.0	597.5	612.0
67.5°	369.3	441.9	507.8	540.8	546.1
70°	323.2	402.3	457.7	476.2	480.1
72.5°	275.7	361.4	402.3	404.9	402.3
75°	230.8	315.3	339.0	331.1	321.8
77.5°	187.3	267.8	273.0	248.0	238.7
80°	145.1	216.3	197.9	166.2	150.4
82.5°	102.9	159.6	122.7	97.6	91.0
85°	66.0	92.3	63.3	55.4	54.1
87.5°	30.3	34.3	26.4	23.7	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)