

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: P189700

Luminaire Tested: **BRG-WN-2L35-LD2-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189700  
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-2L35-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) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

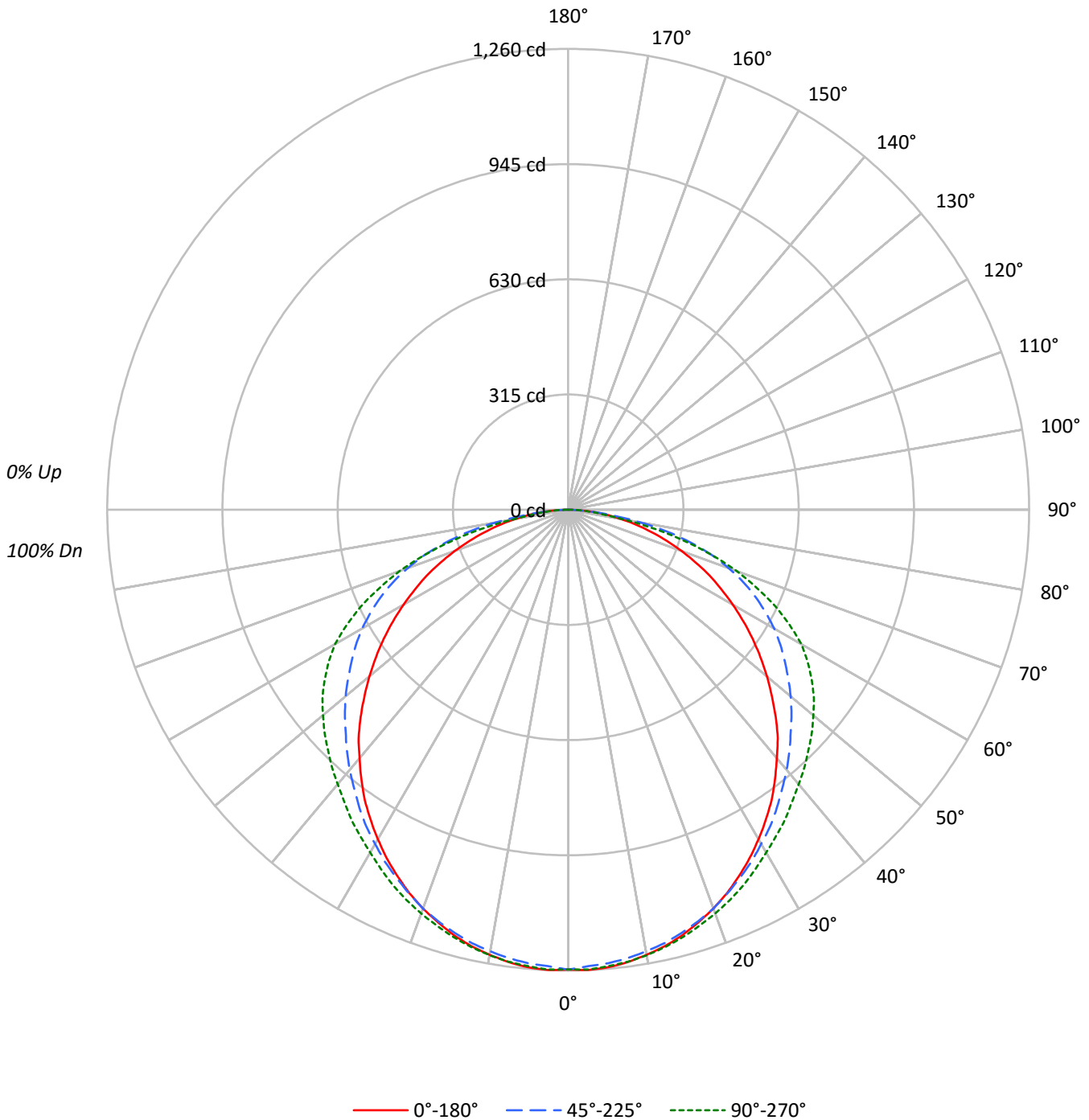
Lumens per Lamp: N/A  
Luminaire Lumens: 3870.8 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.5  
Input Voltage (V): NR  
Input Current (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



TEST NUMBER: P189700  
CATALOG NUMBER: BRG-WN-2L35-LD2-UNV-24-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P189700

CATALOG NUMBER: BRG-WN-2L35-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°	1926	1926	1926
5°	1931	1914	1927
10°	1922	1907	1924
15°	1910	1899	1919
20°	1891	1891	1915
25°	1868	1877	1915
30°	1840	1866	1914
35°	1812	1860	1933
40°	1773	1857	1959
45°	1738	1863	2012
50°	1690	1892	2085
55°	1643	1930	2171
60°	1592	1991	2255
65°	1546	2049	2263
70°	1477	2092	2194
75°	1394	2047	1943
80°	1306	1781	1353
85°	1183	1135	970



TEST NUMBER: P189700

CATALOG NUMBER: BRG-WN-2L35-LD2-UNV-24-STD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.9	3.1
10°-20°	339.9	8.8
20°-30°	514.5	13.3
30°-40°	624.7	16.1
40°-50°	667.1	17.2
50°-60°	643.7	16.6
60°-70°	540.4	14.0
70°-80°	336.6	8.7
80°-90°	84.9	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°	973.3	25.1
0°-40°	1598.0	41.3
0°-60°	2908.9	75.1
0°-90°	3870.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3870.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1257	1257	1257	1257	1257	
5°	1256	1253	1245	1253	1253	119
15°	1205	1203	1198	1209	1210	340
25°	1105	1106	1110	1128	1133	509
35°	969	974	995	1022	1034	605
45°	802	820	860	908	929	618
55°	615	654	723	787	813	550
65°	427	491	565	610	624	421
75°	236	322	346	338	328	250
85°	67	94	65	56	55	75
90°	0	0	0	0	0	



TEST NUMBER: P189700

CATALOG NUMBER: BRG-WN-2L35-LD2-UNV-24-STD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1257.2	1257.2	1257.2	1257.2	1257.2
2.5°	1259.8	1257.2	1249.1	1257.2	1258.5
5°	1255.8	1253.1	1245.0	1253.1	1253.1
7.5°	1247.7	1245.0	1237.0	1246.4	1246.4
10°	1235.6	1234.3	1226.2	1237.0	1237.0
12.5°	1222.2	1220.8	1214.1	1224.9	1224.9
15°	1204.7	1203.3	1197.9	1208.7	1210.0
17.5°	1183.1	1183.1	1180.4	1191.2	1192.5
20°	1160.2	1160.2	1160.2	1173.7	1175.0
22.5°	1134.7	1133.3	1136.0	1150.8	1154.9
25°	1105.1	1106.4	1110.4	1127.9	1133.3
27.5°	1074.1	1076.8	1084.9	1103.7	1107.7
30°	1040.4	1044.5	1055.3	1076.8	1082.2
32.5°	1005.5	1010.8	1027.0	1048.5	1057.9
35°	969.1	974.5	994.7	1021.6	1033.7
37.5°	928.7	936.8	961.0	994.7	1005.5
40°	887.0	899.1	928.7	965.1	979.9
42.5°	848.0	860.1	895.1	936.8	955.7
45°	802.2	819.7	860.1	908.5	928.7
47.5°	755.1	779.3	827.8	878.9	903.2
50°	709.3	736.3	794.1	850.7	874.9
52.5°	662.2	697.2	757.8	819.7	846.6
55°	615.1	654.2	722.8	787.4	813.0
57.5°	568.0	616.5	687.8	751.1	776.6
60°	519.6	574.7	650.1	710.7	736.3
62.5°	472.4	533.0	608.4	663.6	682.4
65°	426.7	491.3	565.3	609.7	624.5
67.5°	376.9	450.9	518.2	551.9	557.2
70°	329.8	410.5	467.1	485.9	489.9
72.5°	281.3	368.8	410.5	413.2	410.5
75°	235.5	321.7	345.9	337.8	328.4
77.5°	191.1	273.2	278.6	253.0	243.6
80°	148.1	220.7	201.9	169.6	153.4
82.5°	105.0	162.9	125.2	99.6	92.9
85°	67.3	94.2	64.6	56.5	55.2
87.5°	31.0	35.0	26.9	24.2	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)