

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: P189665

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34874)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WG-2L30-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND
RECTANGULAR PERF INLAY
LIGHT LEVEL 2 (820 mA)
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

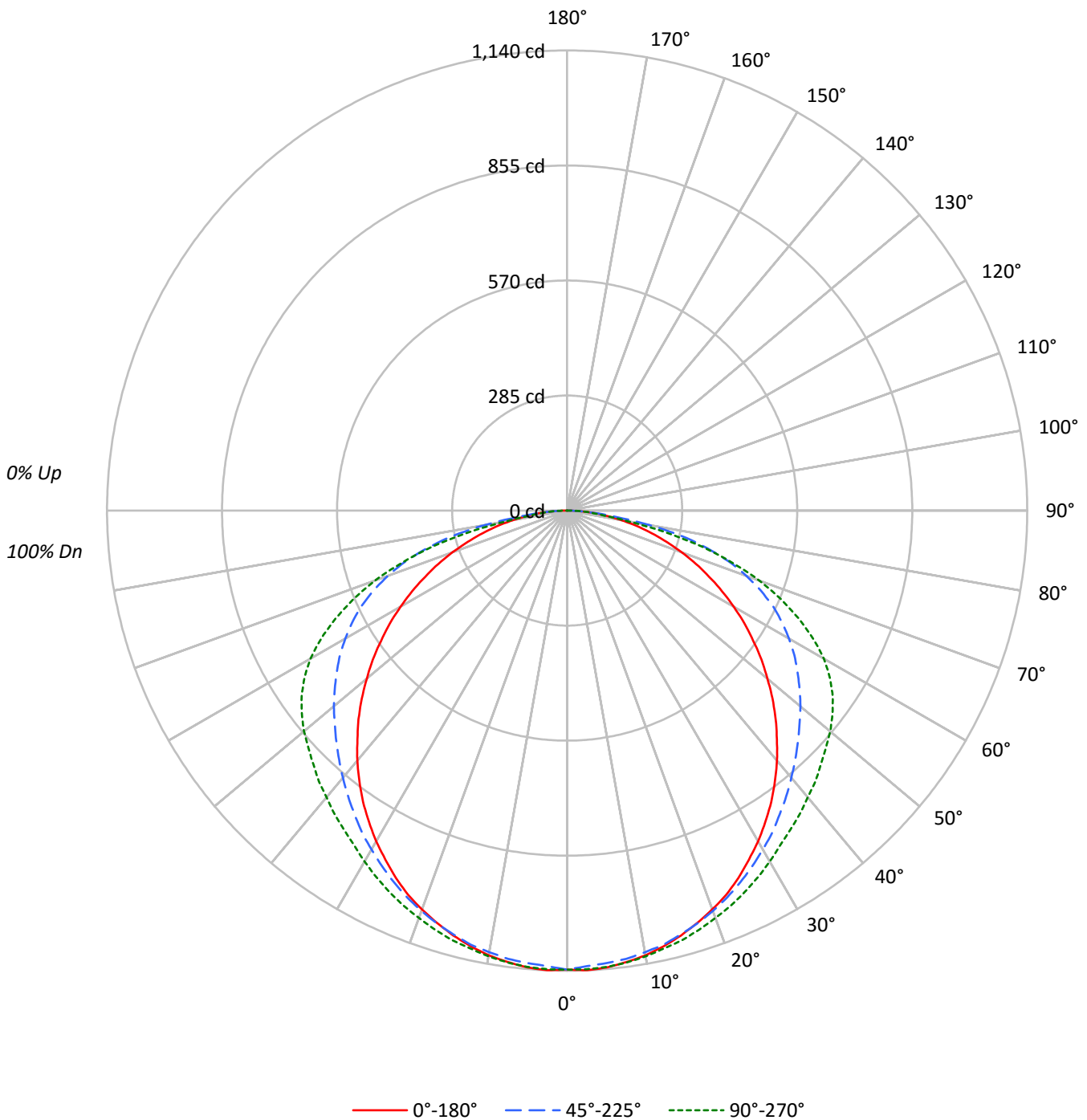
Lumens per Lamp: N/A
Luminaire Lumens: 3668.0 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P189665
CATALOG NUMBER: BRG-WG-2L30-LD2-UNV-24-STD

Luminous Intensity Polar Plot





TEST NUMBER: P189665

CATALOG NUMBER: BRG-WG-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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	88	81	75	95	87	80	74	83	77	72	80	75	71	76	73	69	67
3	88	77	68	61	86	75	67	61	72	65	60	69	64	59	67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	42	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33	45	38	33	43	37	32	30
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	55	41	32	26	53	40	32	26	39	31	26	38	31	26	37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1742	1742	1742
5°	1746	1730	1744
10°	1740	1728	1744
15°	1728	1724	1747
20°	1714	1720	1750
25°	1697	1717	1761
30°	1673	1715	1776
35°	1648	1717	1803
40°	1617	1728	1854
45°	1583	1752	1926
50°	1544	1798	2028
55°	1504	1860	2145
60°	1459	1944	2251
65°	1406	2041	2295
70°	1353	2115	2269
75°	1281	2123	2045
80°	1199	1838	1350
85°	1090	1135	1019



TEST NUMBER: P189665

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	2.9
10°-20°	308.5	8.4
20°-30°	470.4	12.8
30°-40°	577.0	15.7
40°-50°	625.8	17.1
50°-60°	617.7	16.8
60°-70°	533.2	14.5
70°-80°	341.8	9.3
80°-90°	85.9	2.3
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°	886.5	24.2
0°-40°	1463.6	39.9
0°-60°	2707.1	73.8
0°-90°	3668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3668.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1137	1137	1137	1137	1137	
5°	1136	1133	1125	1133	1135	108
15°	1090	1090	1087	1099	1102	307
25°	1004	1007	1016	1036	1042	462
35°	881	890	918	952	964	551
45°	731	755	809	865	889	563
55°	563	612	697	772	803	504
65°	388	471	563	619	633	385
75°	216	323	359	354	346	230
85°	62	96	65	59	58	70
90°	0	0	0	0	0	



TEST NUMBER: P189665

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1137.2	1137.2	1137.2	1137.2	1137.2
2.5°	1139.8	1137.2	1129.3	1137.2	1137.2
5°	1135.9	1133.3	1125.3	1133.3	1134.6
7.5°	1128.0	1126.7	1120.1	1128.0	1129.3
10°	1118.7	1117.4	1110.8	1120.1	1121.4
12.5°	1105.5	1104.2	1101.6	1110.8	1110.8
15°	1089.7	1089.7	1087.1	1098.9	1101.6
17.5°	1071.2	1072.6	1072.6	1085.8	1088.4
20°	1051.5	1052.8	1055.4	1069.9	1073.9
22.5°	1030.3	1030.3	1036.9	1054.1	1059.4
25°	1004.0	1006.6	1015.8	1035.6	1042.2
27.5°	974.9	980.2	993.4	1015.8	1023.8
30°	945.9	952.5	969.7	994.7	1004.0
32.5°	914.3	922.2	945.9	973.6	982.9
35°	881.3	890.5	918.2	952.5	964.4
37.5°	845.7	857.5	891.8	931.4	947.2
40°	808.7	824.5	864.1	909.0	927.4
42.5°	769.1	790.2	836.4	887.9	910.3
45°	730.9	754.6	808.7	865.4	889.2
47.5°	690.0	720.3	781.0	843.0	869.4
50°	647.8	682.1	754.6	821.9	850.9
52.5°	606.9	647.8	725.6	798.2	828.5
55°	563.3	612.1	696.6	771.8	803.4
57.5°	521.1	577.8	667.5	742.7	771.8
60°	476.3	540.9	634.6	708.4	734.8
62.5°	432.7	507.9	600.3	666.2	687.3
65°	387.9	471.0	563.3	618.7	633.2
67.5°	345.6	436.7	519.8	563.3	572.6
70°	302.1	401.1	472.3	504.0	506.6
72.5°	258.6	361.5	420.8	428.8	428.8
75°	216.4	323.2	358.8	353.6	345.6
77.5°	176.8	275.7	290.2	267.8	250.7
80°	135.9	226.9	208.4	168.9	153.0
82.5°	97.6	168.9	122.7	96.3	91.0
85°	62.0	96.3	64.6	59.4	58.0
87.5°	29.0	35.6	29.0	31.7	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)