

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: P189655

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34869)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WS-2L35-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 2 (820 mA)
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

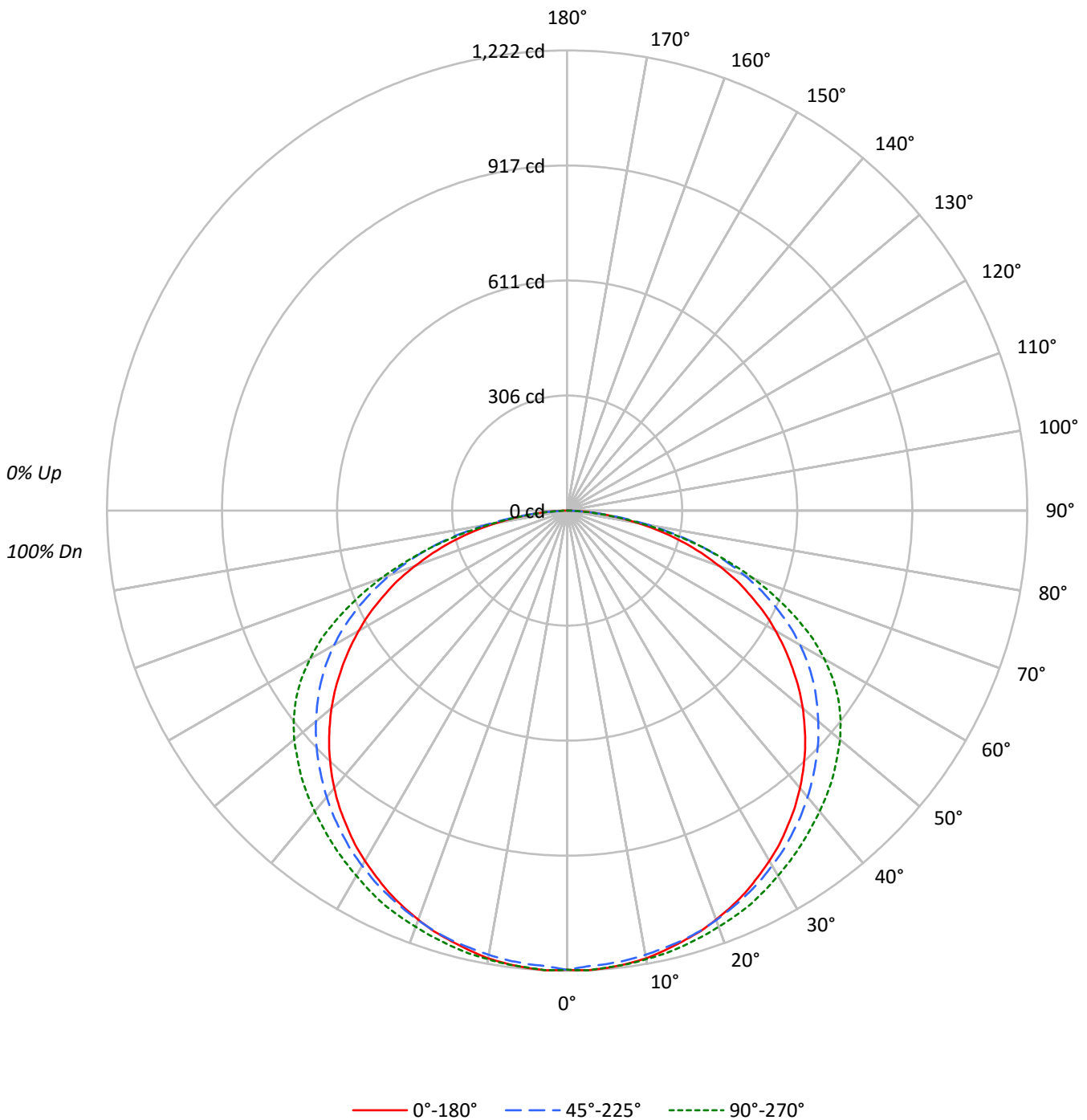
Lumens per Lamp: N/A
Luminaire Lumens: 4148.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.37 / 1.48
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P189655
CATALOG NUMBER: BRG-WS-2L35-LD2-UNV-24-STD

Luminous Intensity Polar Plot





TEST NUMBER: P189655

CATALOG NUMBER: BRG-WS-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	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	63	58	67	62	57	55
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	46
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	48	41	36	34
7	63	49	39	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	43	35	29	42	34	29	41	34	29	40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26	37	31	26	36	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1868	1868	1868
5°	1875	1858	1873
10°	1878	1863	1882
15°	1878	1874	1897
20°	1885	1887	1917
25°	1892	1904	1949
30°	1900	1926	1980
35°	1910	1953	2026
40°	1924	1986	2086
45°	1936	2026	2163
50°	1947	2075	2255
55°	1951	2135	2350
60°	1958	2189	2416
65°	1951	2224	2424
70°	1923	2236	2357
75°	1856	2198	2174
80°	1698	1923	1781
85°	1348	1278	1160



TEST NUMBER: P189655

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	2.8
10°-20°	335.7	8.1
20°-30°	522.5	12.6
30°-40°	657.2	15.8
40°-50°	726.4	17.5
50°-60°	716.4	17.3
60°-70°	602.6	14.5
70°-80°	376.4	9.1
80°-90°	95.1	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°	974.0	23.5
0°-40°	1631.1	39.3
0°-60°	3074.0	74.1
0°-90°	4148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1219	1219	1219	1219	1219	
5°	1219	1217	1209	1218	1218	116
15°	1184	1184	1182	1194	1196	335
25°	1120	1120	1126	1147	1154	516
35°	1022	1027	1044	1073	1084	640
45°	894	904	935	978	999	689
55°	731	751	800	853	880	654
65°	538	572	614	656	669	533
75°	314	361	372	366	367	330
85°	77	90	73	67	66	91
90°	0	0	0	0	0	



TEST NUMBER: P189655

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1219.4	1219.4	1219.4	1219.4	1219.4
2.5°	1222.1	1220.8	1211.3	1220.8	1222.1
5°	1219.4	1216.7	1208.6	1218.1	1218.1
7.5°	1214.0	1211.3	1204.6	1214.0	1215.4
10°	1207.3	1204.6	1197.9	1210.0	1210.0
12.5°	1196.5	1195.2	1189.8	1201.9	1204.6
15°	1184.4	1184.4	1181.7	1193.8	1196.5
17.5°	1172.3	1171.0	1171.0	1185.8	1187.1
20°	1156.2	1156.2	1157.5	1173.7	1176.3
22.5°	1138.7	1138.7	1142.7	1161.5	1165.6
25°	1119.8	1119.8	1126.5	1146.7	1153.5
27.5°	1096.9	1099.6	1109.0	1130.6	1137.3
30°	1074.1	1076.7	1088.9	1111.7	1119.8
32.5°	1049.8	1053.9	1068.7	1092.9	1102.3
35°	1021.6	1026.9	1044.4	1072.7	1083.5
37.5°	993.3	997.3	1020.2	1051.2	1063.3
40°	962.3	967.7	993.3	1028.3	1043.1
42.5°	928.7	938.1	965.0	1004.1	1021.6
45°	893.7	904.5	935.4	978.5	998.7
47.5°	856.0	869.5	904.5	951.6	971.8
50°	817.0	830.4	870.8	922.0	946.2
52.5°	775.3	792.8	835.8	889.7	915.2
55°	730.8	751.0	799.5	853.3	880.2
57.5°	686.4	712.0	759.1	812.9	838.5
60°	639.3	664.9	714.7	765.8	788.7
62.5°	592.2	617.8	667.6	713.3	734.9
65°	538.4	572.0	613.7	655.5	668.9
67.5°	488.6	522.2	559.9	589.5	598.9
70°	429.4	469.7	499.3	519.5	526.3
72.5°	372.8	415.9	437.4	441.5	446.8
75°	313.6	360.7	371.5	366.1	367.4
77.5°	254.4	300.1	297.5	285.3	286.7
80°	192.5	234.2	218.0	207.3	201.9
82.5°	131.9	166.9	142.7	129.2	127.9
85°	76.7	90.2	72.7	67.3	66.0
87.5°	31.0	35.0	24.2	17.5	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)