

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: P189670

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189670  
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-2L35-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) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

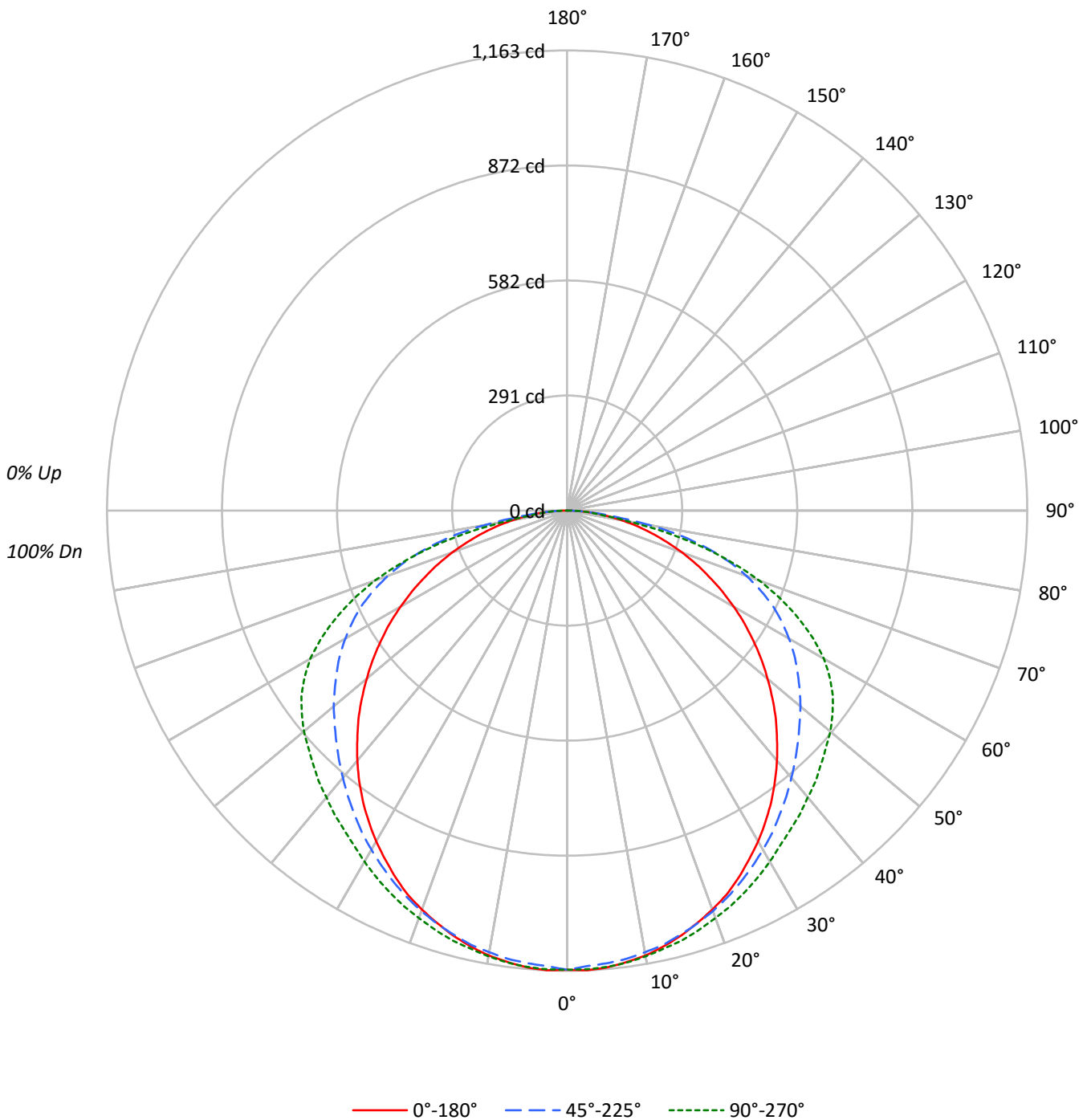
Lumens per Lamp: N/A  
Luminaire Lumens: 3742.9 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.42  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

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



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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	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°	1777	1777	1777
5°	1782	1765	1780
10°	1775	1763	1780
15°	1763	1759	1782
20°	1749	1755	1786
25°	1731	1752	1797
30°	1707	1750	1812
35°	1681	1752	1840
40°	1650	1763	1892
45°	1615	1787	1965
50°	1575	1835	2069
55°	1535	1898	2189
60°	1489	1983	2297
65°	1434	2083	2342
70°	1381	2158	2315
75°	1307	2167	2087
80°	1223	1876	1378
85°	1112	1160	1040



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.8	2.9
10°-20°	314.8	8.4
20°-30°	480.0	12.8
30°-40°	588.8	15.7
40°-50°	638.6	17.1
50°-60°	630.3	16.8
60°-70°	544.1	14.5
70°-80°	348.8	9.3
80°-90°	87.7	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°	904.7	24.2
0°-40°	1493.5	39.9
0°-60°	2762.4	73.8
0°-90°	3742.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3742.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1160	1160	1160	1160	1160	
5°	1159	1156	1148	1156	1158	110
15°	1112	1112	1109	1121	1124	314
25°	1024	1027	1037	1057	1064	472
35°	899	909	937	972	984	562
45°	746	770	825	883	907	575
55°	575	625	711	788	820	514
65°	396	481	575	631	646	393
75°	221	330	366	361	353	234
85°	63	98	66	61	59	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1160.4	1160.4	1160.4	1160.4	1160.4
2.5°	1163.1	1160.4	1152.4	1160.4	1160.4
5°	1159.1	1156.4	1148.3	1156.4	1157.7
7.5°	1151.0	1149.7	1142.9	1151.0	1152.4
10°	1141.6	1140.2	1133.5	1142.9	1144.3
12.5°	1128.1	1126.8	1124.1	1133.5	1133.5
15°	1112.0	1112.0	1109.3	1121.4	1124.1
17.5°	1093.1	1094.5	1094.5	1107.9	1110.6
20°	1072.9	1074.3	1077.0	1091.8	1095.8
22.5°	1051.4	1051.4	1058.1	1075.6	1081.0
25°	1024.5	1027.2	1036.6	1056.8	1063.5
27.5°	994.9	1000.2	1013.7	1036.6	1044.7
30°	965.2	972.0	989.5	1015.0	1024.5
32.5°	932.9	941.0	965.2	993.5	1002.9
35°	899.3	908.7	937.0	972.0	984.1
37.5°	862.9	875.0	910.0	950.4	966.6
40°	825.2	841.4	881.8	927.5	946.4
42.5°	784.8	806.4	853.5	906.0	928.9
45°	745.8	770.0	825.2	883.1	907.3
47.5°	704.1	735.0	797.0	860.2	887.2
50°	661.0	696.0	770.0	838.7	868.3
52.5°	619.3	661.0	740.4	814.5	845.4
55°	574.8	624.6	710.8	787.5	819.8
57.5°	531.8	589.6	681.2	757.9	787.5
60°	486.0	551.9	647.5	722.9	749.8
62.5°	441.6	518.3	612.5	679.8	701.4
65°	395.8	480.6	574.8	631.4	646.2
67.5°	352.7	445.6	530.4	574.8	584.3
70°	308.3	409.2	481.9	514.3	516.9
72.5°	263.9	368.9	429.4	437.5	437.5
75°	220.8	329.8	366.2	360.8	352.7
77.5°	180.4	281.4	296.2	273.3	255.8
80°	138.7	231.5	212.7	172.3	156.2
82.5°	99.6	172.3	125.2	98.3	92.9
85°	63.3	98.3	66.0	60.6	59.2
87.5°	29.6	36.3	29.6	32.3	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)