

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: P189690

Luminaire Tested: **BRG-WD-2L40-LD2-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189690  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34875)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: BRG-WD-2L40-LD2-UNV-24-STD  
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY  
LIGHT LEVEL 2 (820 mA)  
Light Source: (308) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

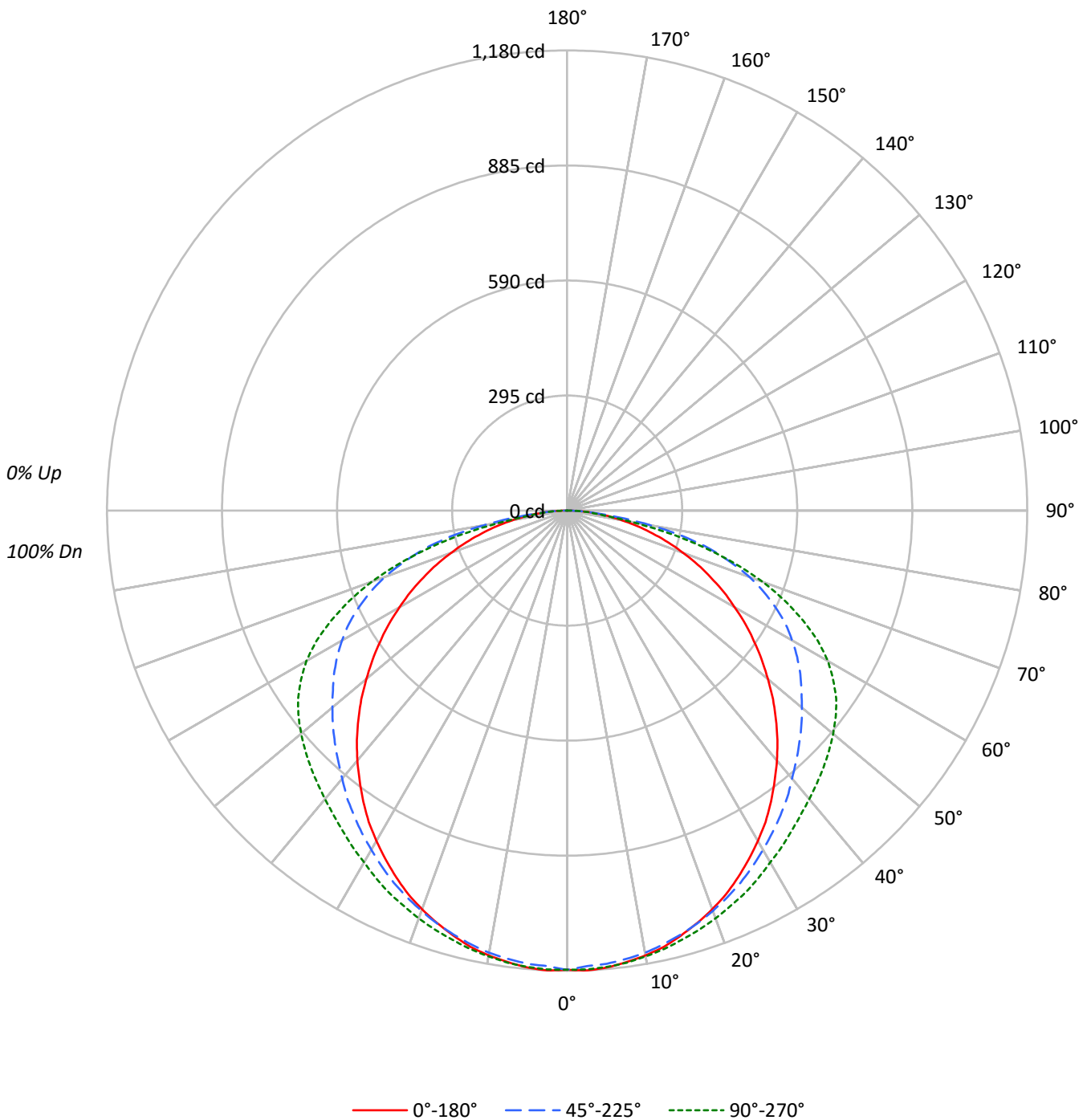
Lumens per Lamp: N/A  
Luminaire Lumens: 3824.0 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.43  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

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



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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	92	89	92	89	87	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	79	75	70	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	59	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	38	51	43	37	49	42	37	48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1803	1803	1803
5°	1808	1793	1806
10°	1801	1791	1806
15°	1789	1784	1806
20°	1774	1780	1814
25°	1753	1779	1827
30°	1730	1776	1842
35°	1703	1783	1875
40°	1673	1794	1931
45°	1640	1824	2015
50°	1601	1873	2122
55°	1563	1948	2249
60°	1519	2041	2365
65°	1474	2141	2420
70°	1415	2227	2387
75°	1342	2244	2139
80°	1248	1927	1454
85°	1160	1207	1063



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.4	2.9
10°-20°	319.4	8.4
20°-30°	487.2	12.7
30°-40°	598.7	15.7
40°-50°	651.7	17.0
50°-60°	645.8	16.9
60°-70°	560.3	14.7
70°-80°	359.1	9.4
80°-90°	90.5	2.4
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°	917.9	24.0
0°-40°	1516.7	39.7
0°-60°	2814.2	73.6
0°-90°	3824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3824.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1178	1178	1178	1178	1178	
5°	1176	1173	1166	1173	1175	112
15°	1128	1128	1125	1138	1139	318
25°	1037	1042	1052	1073	1081	478
35°	911	922	954	989	1003	570
45°	757	785	842	904	930	584
55°	585	639	730	811	842	524
65°	407	493	591	653	668	403
75°	227	337	379	372	361	241
85°	66	102	69	60	60	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1177.5	1177.5	1177.5	1177.5	1177.5
2.5°	1180.3	1177.5	1169.3	1177.5	1177.5
5°	1176.2	1173.4	1166.5	1173.4	1174.8
7.5°	1167.9	1166.5	1159.7	1167.9	1169.3
10°	1158.3	1155.5	1151.4	1159.7	1161.0
12.5°	1145.9	1143.2	1139.1	1150.0	1151.4
15°	1128.1	1128.1	1125.3	1137.7	1139.1
17.5°	1108.8	1110.2	1110.2	1123.9	1126.7
20°	1088.2	1089.6	1092.3	1108.8	1112.9
22.5°	1064.9	1066.2	1073.1	1092.3	1096.5
25°	1037.4	1041.5	1052.5	1073.1	1081.3
27.5°	1008.5	1014.0	1029.1	1052.5	1062.1
30°	978.3	985.2	1004.4	1033.3	1041.5
32.5°	946.7	954.9	979.7	1011.3	1023.6
35°	911.0	922.0	953.6	989.3	1003.0
37.5°	873.9	889.0	927.5	968.7	983.8
40°	836.8	854.6	897.2	946.7	965.9
42.5°	798.3	820.3	869.7	924.7	948.1
45°	757.1	784.6	842.3	904.1	930.2
47.5°	715.9	747.5	814.8	882.1	911.0
50°	671.9	711.7	785.9	858.8	890.4
52.5°	629.3	673.3	757.1	835.4	868.4
55°	585.3	638.9	729.6	810.7	842.3
57.5°	542.7	601.8	699.4	779.1	809.3
60°	496.0	566.1	666.4	743.3	772.2
62.5°	453.4	530.4	632.0	702.1	725.5
65°	406.7	493.3	590.8	652.7	667.8
67.5°	362.7	457.5	546.9	592.2	604.6
70°	316.0	421.8	497.4	530.4	533.1
72.5°	272.1	380.6	439.7	452.0	450.7
75°	226.7	336.6	379.2	372.4	361.4
77.5°	185.5	289.9	305.0	278.9	266.6
80°	141.5	237.7	218.5	177.2	164.9
82.5°	103.1	177.2	131.9	101.7	94.8
85°	66.0	101.7	68.7	60.5	60.5
87.5°	31.6	38.5	31.6	31.6	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)