

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: P189618

Luminaire Tested: **BRG-WD-5L40-LD2-UNV-14-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189618  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34884)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: BRG-WD-5L40-LD2-UNV-14-STD  
Description: BRIDGE 1x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY  
LIGHT LEVEL 5 (1285 mA)  
Light Source: (308) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

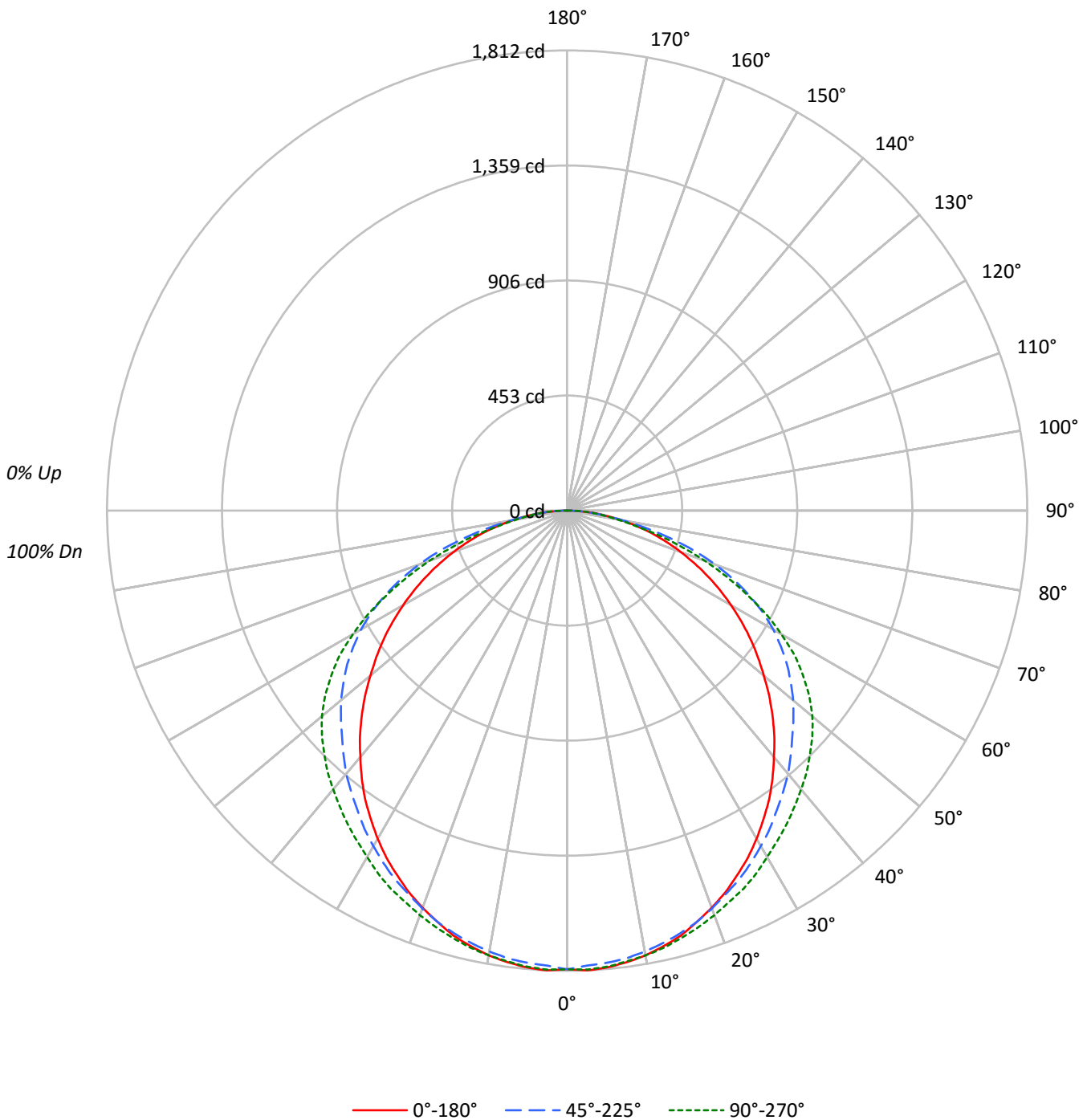
Lumens per Lamp: N/A  
Luminaire Lumens: 5478.7 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 62.5  
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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48
5	75	61	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

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

	0°	45°	90°
0°	5533	5533	5533
5°	5554	5497	5544
10°	5532	5484	5532
15°	5493	5464	5523
20°	5426	5435	5526
25°	5354	5417	5553
30°	5277	5397	5571
35°	5187	5383	5636
40°	5066	5411	5731
45°	4954	5434	5862
50°	4818	5538	6007
55°	4708	5646	6057
60°	4570	5741	5967
65°	4424	5741	5652
70°	4252	5548	5162
75°	4086	4961	4378
80°	3807	3969	3533
85°	3465	3251	3357



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.9	3.1
10°-20°	488.9	8.9
20°-30°	742.0	13.5
30°-40°	904.3	16.5
40°-50°	968.1	17.7
50°-60°	923.1	16.8
60°-70°	738.8	13.5
70°-80°	427.8	7.8
80°-90°	114.8	2.1
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°	1401.9	25.6
0°-40°	2306.2	42.1
0°-60°	4197.3	76.6
0°-90°	5478.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5478.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1806	1806	1806	1806	1806	
5°	1806	1803	1788	1803	1803	171
15°	1732	1729	1723	1741	1741	488
25°	1584	1590	1603	1634	1643	730
35°	1387	1399	1439	1489	1507	866
45°	1144	1180	1254	1332	1353	882
55°	882	952	1057	1122	1134	787
65°	610	718	792	789	780	604
75°	345	459	419	382	370	363
85°	99	105	92	96	96	110
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1806.1	1806.1	1806.1	1806.1	1806.1
2.5°	1812.3	1809.2	1793.8	1806.1	1809.2
5°	1806.1	1803.1	1787.7	1803.1	1803.1
7.5°	1793.8	1790.7	1778.4	1793.8	1790.7
10°	1778.4	1775.3	1763.0	1778.4	1778.4
12.5°	1756.8	1753.8	1744.5	1763.0	1763.0
15°	1732.2	1729.1	1722.9	1741.4	1741.4
17.5°	1698.3	1698.3	1698.3	1716.8	1719.8
20°	1664.4	1667.4	1667.4	1692.1	1695.2
22.5°	1627.4	1630.5	1633.5	1664.4	1667.4
25°	1584.2	1590.4	1602.7	1633.5	1642.8
27.5°	1541.1	1547.2	1565.7	1599.6	1612.0
30°	1491.8	1497.9	1525.7	1562.7	1575.0
32.5°	1439.4	1451.7	1485.6	1525.7	1541.1
35°	1387.0	1399.3	1439.4	1488.7	1507.2
37.5°	1328.4	1346.9	1396.2	1451.7	1470.2
40°	1266.8	1294.5	1353.1	1414.7	1433.2
42.5°	1208.2	1235.9	1303.8	1371.6	1396.2
45°	1143.5	1180.5	1254.4	1331.5	1353.1
47.5°	1078.8	1121.9	1208.2	1285.3	1309.9
50°	1010.9	1066.4	1162.0	1235.9	1260.6
52.5°	946.2	1007.9	1109.6	1180.5	1202.0
55°	881.5	952.4	1057.2	1121.9	1134.2
57.5°	813.7	893.8	998.6	1054.1	1063.3
60°	745.9	835.3	937.0	974.0	974.0
62.5°	678.1	776.7	869.2	887.7	884.6
65°	610.3	718.1	792.1	789.0	779.8
67.5°	542.5	659.6	708.9	687.3	678.1
70°	474.7	594.9	619.5	585.6	576.4
72.5°	409.9	533.2	524.0	483.9	468.5
75°	345.2	459.2	419.2	382.2	369.9
77.5°	277.4	385.3	320.5	283.6	271.2
80°	215.8	295.9	225.0	203.4	200.3
82.5°	154.1	194.2	147.9	144.9	144.9
85°	98.6	104.8	92.5	95.5	95.5
87.5°	43.2	46.2	49.3	52.4	52.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)