

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: P189662

Luminaire Tested: **BRG-WS-4L40-LD2-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189662  
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-4L40-LD2-UNV-24-STD  
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 4 (1260 mA)  
Light Source: (308) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

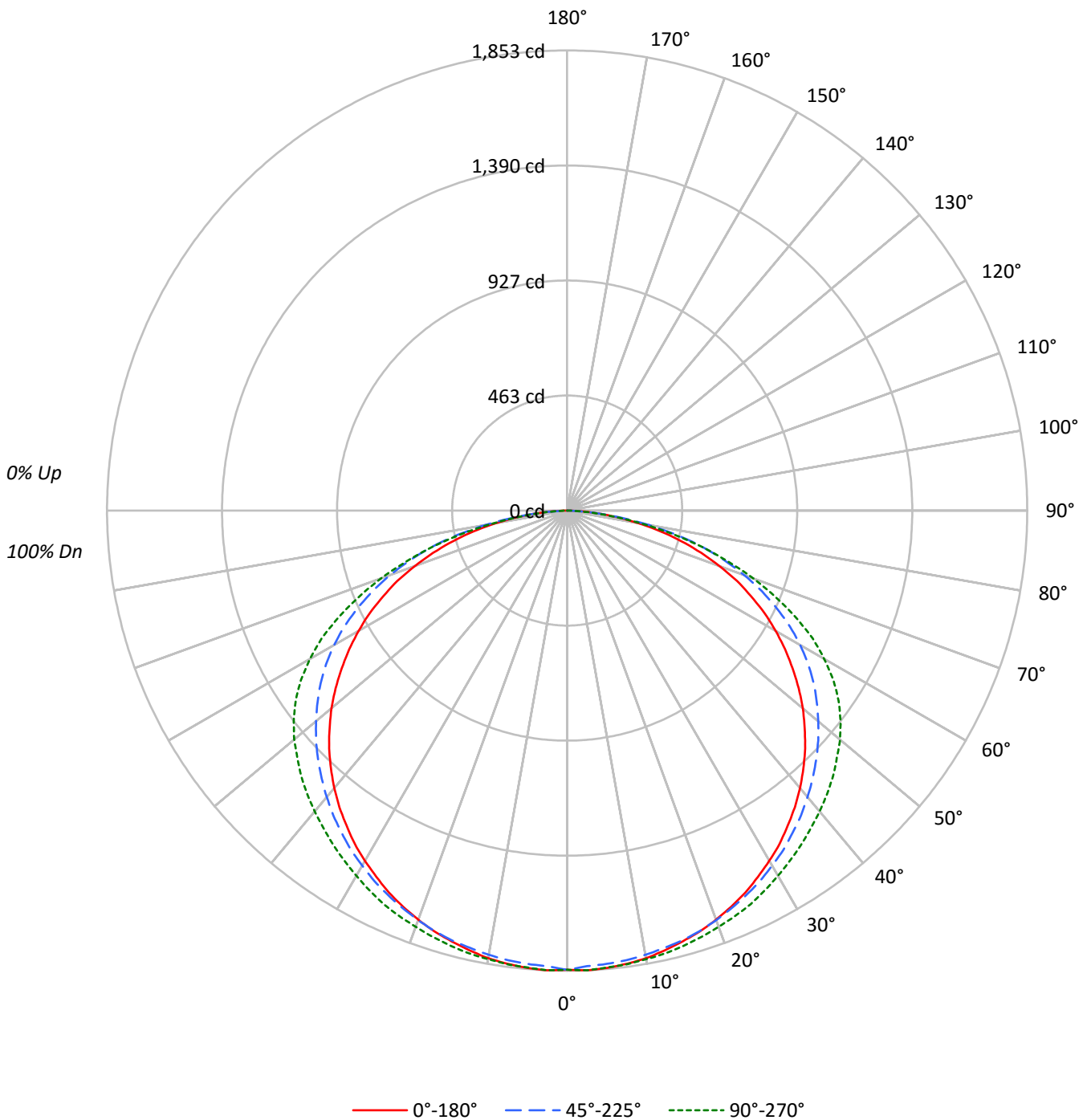
Lumens per Lamp: N/A  
Luminaire Lumens: 6289.2 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.37 / 1.48  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 58.5  
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	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°	2832	2832	2832
5°	2843	2817	2839
10°	2847	2825	2853
15°	2848	2841	2877
20°	2857	2861	2907
25°	2869	2887	2956
30°	2880	2920	3003
35°	2896	2961	3072
40°	2917	3011	3162
45°	2935	3072	3280
50°	2952	3146	3418
55°	2959	3237	3564
60°	2969	3319	3663
65°	2958	3373	3676
70°	2915	3390	3573
75°	2814	3333	3297
80°	2574	2916	2700
85°	2044	1937	1757



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.4	2.8
10°-20°	509.0	8.1
20°-30°	792.3	12.6
30°-40°	996.4	15.8
40°-50°	1101.4	17.5
50°-60°	1086.3	17.3
60°-70°	913.6	14.5
70°-80°	570.7	9.1
80°-90°	144.2	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°	1476.7	23.5
0°-40°	2473.1	39.3
0°-60°	4660.8	74.1
0°-90°	6289.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6289.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1849	1849	1849	1849	1849	
5°	1849	1845	1832	1847	1847	176
15°	1796	1796	1792	1810	1814	508
25°	1698	1698	1708	1739	1749	783
35°	1549	1557	1584	1626	1643	970
45°	1355	1371	1418	1484	1514	1045
55°	1108	1139	1212	1294	1335	991
65°	816	867	931	994	1014	808
75°	476	547	563	555	557	501
85°	116	137	110	102	100	138
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1848.9	1848.9	1848.9	1848.9	1848.9
2.5°	1853.0	1850.9	1836.6	1850.9	1853.0
5°	1848.9	1844.8	1832.5	1846.8	1846.8
7.5°	1840.7	1836.6	1826.4	1840.7	1842.7
10°	1830.5	1826.4	1816.2	1834.6	1834.6
12.5°	1814.2	1812.1	1804.0	1822.3	1826.4
15°	1795.8	1795.8	1791.7	1810.1	1814.2
17.5°	1777.4	1775.4	1775.4	1797.9	1799.9
20°	1753.0	1753.0	1755.0	1779.5	1783.6
22.5°	1726.4	1726.4	1732.5	1761.1	1767.2
25°	1697.9	1697.9	1708.1	1738.7	1748.9
27.5°	1663.2	1667.2	1681.5	1714.2	1724.4
30°	1628.5	1632.6	1650.9	1685.6	1697.9
32.5°	1591.7	1597.9	1620.3	1657.0	1671.3
35°	1548.9	1557.0	1583.6	1626.4	1642.8
37.5°	1506.0	1512.2	1546.8	1593.8	1612.1
40°	1459.1	1467.3	1506.0	1559.1	1581.5
42.5°	1408.1	1422.4	1463.2	1522.4	1548.9
45°	1355.0	1371.3	1418.3	1483.6	1514.2
47.5°	1297.9	1318.3	1371.3	1442.8	1473.4
50°	1238.7	1259.1	1320.3	1397.9	1434.6
52.5°	1175.4	1202.0	1267.3	1348.9	1387.7
55°	1108.1	1138.7	1212.2	1293.8	1334.6
57.5°	1040.8	1079.5	1151.0	1232.6	1271.4
60°	969.3	1008.1	1083.6	1161.2	1195.8
62.5°	897.9	936.7	1012.2	1081.6	1114.2
65°	816.3	867.3	930.6	993.8	1014.2
67.5°	740.8	791.8	848.9	893.8	908.1
70°	651.0	712.2	757.1	787.7	797.9
72.5°	565.3	630.6	663.2	669.3	677.5
75°	475.5	546.9	563.2	555.1	557.1
77.5°	385.7	455.1	451.0	432.6	434.7
80°	291.8	355.1	330.6	314.3	306.1
82.5°	200.0	253.0	216.3	195.9	193.9
85°	116.3	136.7	110.2	102.0	100.0
87.5°	46.9	53.1	36.7	26.5	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)