

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: P189663

Luminaire Tested: **BRG-WS-5L40-LD2-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189663  
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-5L40-LD2-UNV-24-STD  
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 5 (1440 mA)  
Light Source: (308) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

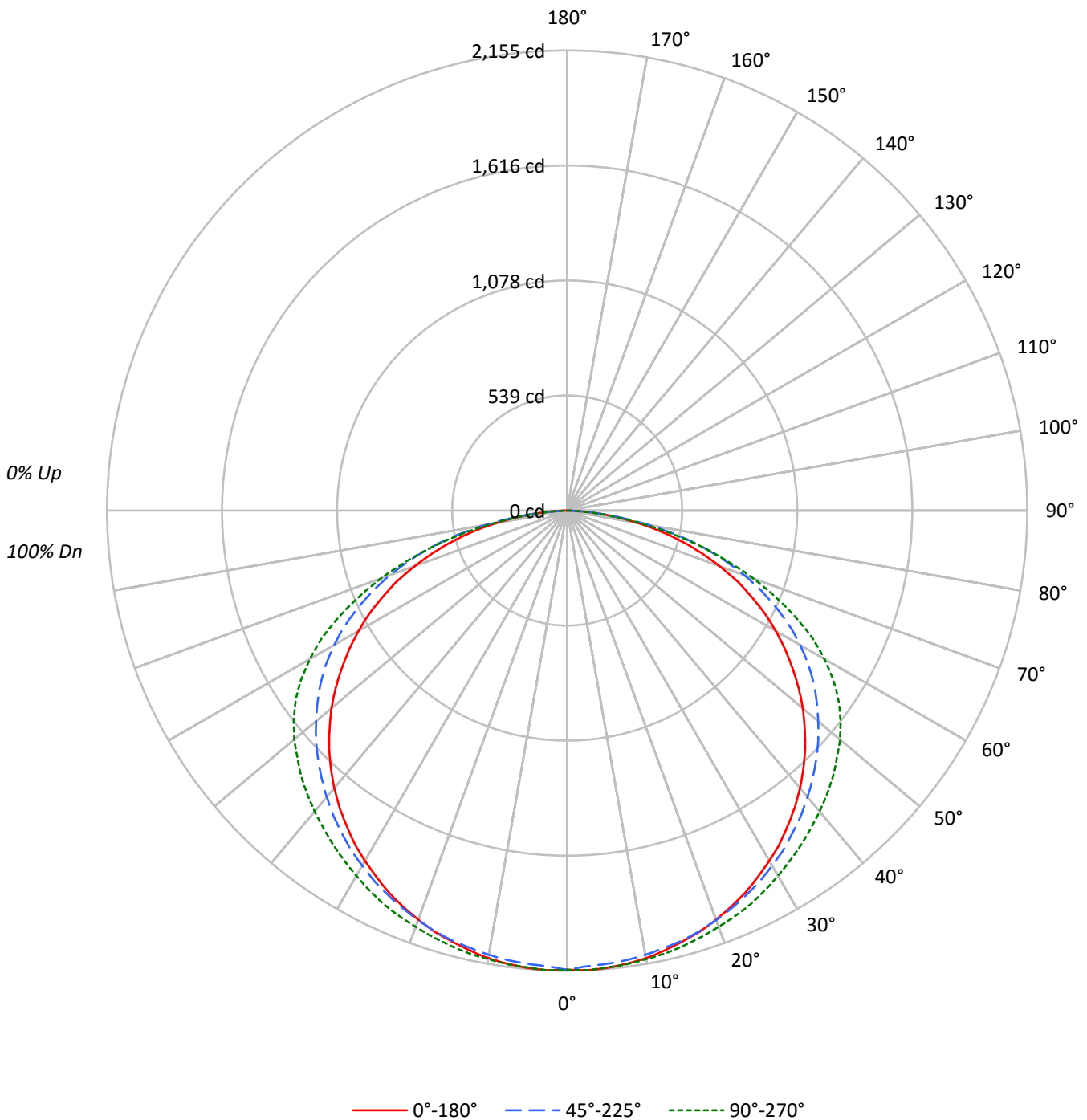
Lumens per Lamp: N/A  
Luminaire Lumens: 7314.4 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.37 / 1.48  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 70.2  
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°	3293	3293	3293
5°	3306	3277	3302
10°	3311	3285	3318
15°	3312	3304	3346
20°	3323	3327	3381
25°	3337	3357	3437
30°	3349	3396	3492
35°	3368	3444	3572
40°	3393	3502	3677
45°	3413	3573	3814
50°	3433	3659	3975
55°	3441	3765	4145
60°	3453	3860	4260
65°	3440	3922	4275
70°	3390	3943	4156
75°	3273	3876	3834
80°	2994	3391	3140
85°	2378	2253	2044



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.0	2.8
10°-20°	592.0	8.1
20°-30°	921.4	12.6
30°-40°	1158.8	15.8
40°-50°	1280.9	17.5
50°-60°	1263.3	17.3
60°-70°	1062.5	14.5
70°-80°	663.7	9.1
80°-90°	167.7	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°	1717.4	23.5
0°-40°	2876.2	39.3
0°-60°	5420.5	74.1
0°-90°	7314.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7314.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2150	2150	2150	2150	2150	
5°	2150	2146	2131	2148	2148	205
15°	2088	2088	2084	2105	2110	590
25°	1975	1975	1986	2022	2034	910
35°	1801	1811	1842	1892	1910	1128
45°	1576	1595	1650	1725	1761	1215
55°	1289	1324	1410	1505	1552	1152
65°	949	1009	1082	1156	1180	940
75°	553	636	655	646	648	582
85°	135	159	128	119	116	161
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2150.2	2150.2	2150.2	2150.2	2150.2
2.5°	2155.0	2152.6	2136.0	2152.6	2155.0
5°	2150.2	2145.5	2131.2	2147.9	2147.9
7.5°	2140.7	2136.0	2124.1	2140.7	2143.1
10°	2128.9	2124.1	2112.3	2133.6	2133.6
12.5°	2109.9	2107.5	2098.0	2119.4	2124.1
15°	2088.5	2088.5	2083.8	2105.1	2109.9
17.5°	2067.2	2064.8	2064.8	2090.9	2093.3
20°	2038.7	2038.7	2041.1	2069.5	2074.3
22.5°	2007.8	2007.8	2014.9	2048.2	2055.3
25°	1974.6	1974.6	1986.5	2022.1	2033.9
27.5°	1934.3	1939.0	1955.6	1993.6	2005.5
30°	1893.9	1898.7	1920.0	1960.4	1974.6
32.5°	1851.2	1858.3	1884.4	1927.1	1943.7
35°	1801.3	1810.8	1841.7	1891.5	1910.5
37.5°	1751.5	1758.6	1799.0	1853.6	1874.9
40°	1696.9	1706.4	1751.5	1813.2	1839.3
42.5°	1637.6	1654.2	1701.7	1770.5	1801.3
45°	1575.9	1594.9	1649.5	1725.4	1761.0
47.5°	1509.4	1533.2	1594.9	1677.9	1713.5
50°	1440.6	1464.3	1535.5	1625.7	1668.4
52.5°	1367.0	1397.9	1473.8	1568.8	1613.9
55°	1288.7	1324.3	1409.8	1504.7	1552.1
57.5°	1210.4	1255.5	1338.6	1433.5	1478.6
60°	1127.3	1172.4	1260.2	1350.4	1390.8
62.5°	1044.3	1089.4	1177.2	1257.9	1295.8
65°	949.3	1008.7	1082.2	1155.8	1179.5
67.5°	861.5	920.8	987.3	1039.5	1056.1
70°	757.1	828.3	880.5	916.1	928.0
72.5°	657.4	733.4	771.3	778.4	787.9
75°	553.0	636.0	655.0	645.5	647.9
77.5°	448.6	529.2	524.5	503.1	505.5
80°	339.4	413.0	384.5	365.5	356.0
82.5°	232.6	294.3	251.6	227.8	225.5
85°	135.3	159.0	128.2	118.7	116.3
87.5°	54.6	61.7	42.7	30.9	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)