

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: P189658

Luminaire Tested: **BRG-WS-5L35-LD2-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189658  
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-5L35-LD2-UNV-24-STD  
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 5 (1440 mA)  
Light Source: (308) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

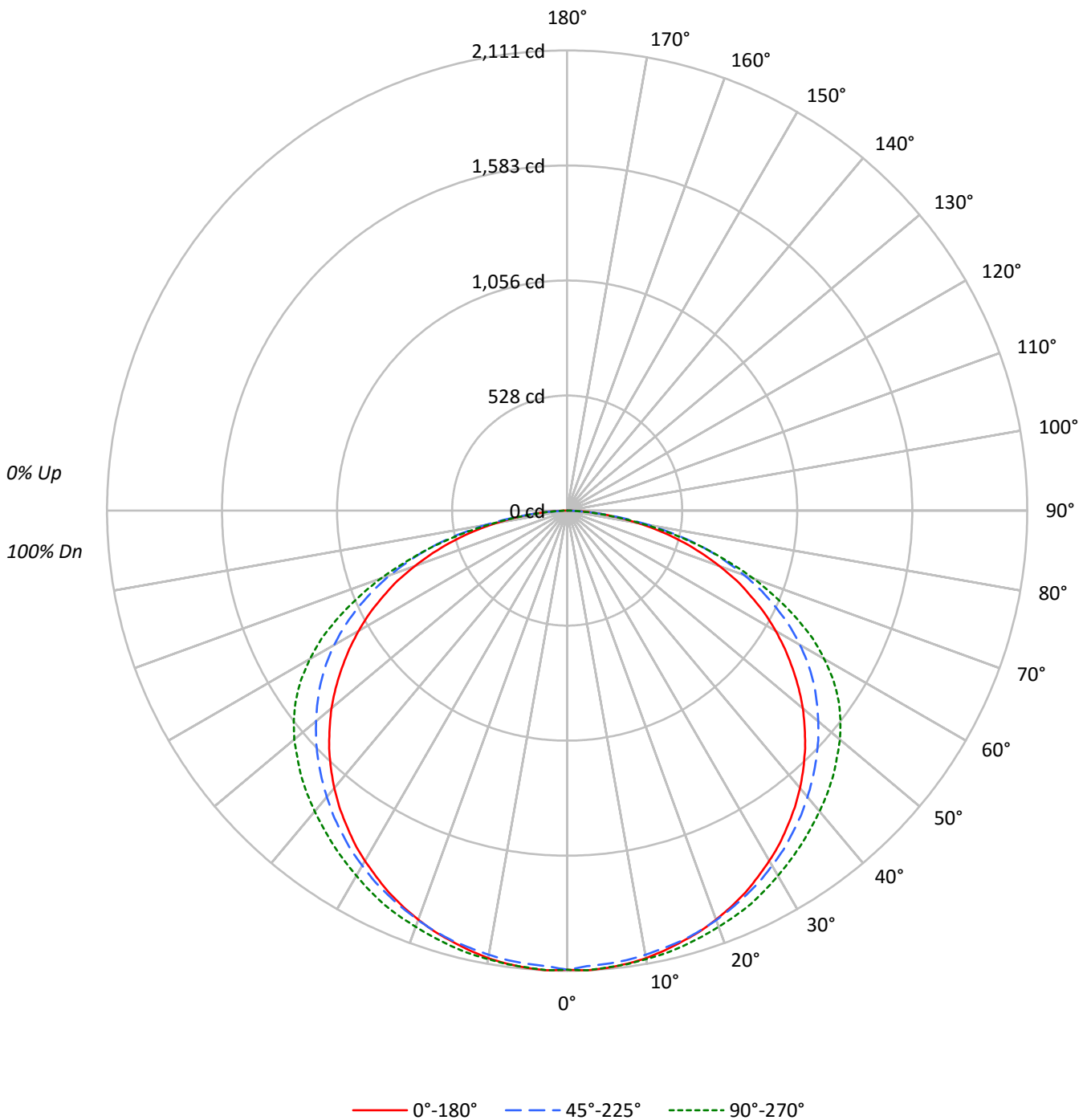
Lumens per Lamp: N/A  
Luminaire Lumens: 7164.4 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.37 / 1.48  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

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°	3226	3226	3226
5°	3238	3210	3235
10°	3243	3218	3250
15°	3244	3236	3277
20°	3255	3259	3312
25°	3269	3288	3367
30°	3281	3326	3421
35°	3299	3373	3499
40°	3323	3430	3602
45°	3344	3499	3736
50°	3362	3584	3894
55°	3371	3687	4060
60°	3382	3781	4173
65°	3370	3842	4187
70°	3321	3862	4070
75°	3205	3797	3755
80°	2932	3322	3076
85°	2328	2205	2002



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.9	2.8
10°-20°	579.8	8.1
20°-30°	902.5	12.6
30°-40°	1135.1	15.8
40°-50°	1254.7	17.5
50°-60°	1237.4	17.3
60°-70°	1040.7	14.5
70°-80°	650.1	9.1
80°-90°	164.2	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°	1682.2	23.5
0°-40°	2817.3	39.3
0°-60°	5309.4	74.1
0°-90°	7164.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7164.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2106	2106	2106	2106	2106	
5°	2106	2102	2088	2104	2104	200
15°	2046	2046	2041	2062	2067	578
25°	1934	1934	1946	1981	1992	892
35°	1764	1774	1804	1853	1871	1105
45°	1544	1562	1616	1690	1725	1191
55°	1262	1297	1381	1474	1520	1129
65°	930	988	1060	1132	1155	921
75°	542	623	642	632	635	570
85°	132	156	126	116	114	158
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2106.1	2106.1	2106.1	2106.1	2106.1
2.5°	2110.8	2108.5	2092.2	2108.5	2110.8
5°	2106.1	2101.5	2087.6	2103.8	2103.8
7.5°	2096.8	2092.2	2080.6	2096.8	2099.2
10°	2085.2	2080.6	2069.0	2089.9	2089.9
12.5°	2066.6	2064.3	2055.0	2075.9	2080.6
15°	2045.7	2045.7	2041.1	2062.0	2066.6
17.5°	2024.8	2022.5	2022.5	2048.0	2050.4
20°	1996.9	1996.9	1999.2	2027.1	2031.8
22.5°	1966.7	1966.7	1973.6	2006.2	2013.2
25°	1934.1	1934.1	1945.7	1980.6	1992.2
27.5°	1894.6	1899.3	1915.5	1952.7	1964.3
30°	1855.1	1859.7	1880.7	1920.2	1934.1
32.5°	1813.2	1820.2	1845.8	1887.6	1903.9
35°	1764.4	1773.7	1803.9	1852.8	1871.4
37.5°	1715.6	1722.6	1762.1	1815.6	1836.5
40°	1662.1	1671.4	1715.6	1776.0	1801.6
42.5°	1604.0	1620.3	1666.8	1734.2	1764.4
45°	1543.6	1562.2	1615.6	1690.0	1724.9
47.5°	1478.5	1501.7	1562.2	1643.5	1678.4
50°	1411.1	1434.3	1504.1	1592.4	1634.2
52.5°	1339.0	1369.2	1443.6	1536.6	1580.8
55°	1262.3	1297.2	1380.9	1473.8	1520.3
57.5°	1185.6	1229.7	1311.1	1404.1	1448.3
60°	1104.2	1148.4	1234.4	1322.7	1362.3
62.5°	1022.9	1067.0	1153.0	1232.1	1269.3
65°	929.9	988.0	1060.0	1132.1	1155.4
67.5°	843.9	902.0	967.1	1018.2	1034.5
70°	741.6	811.3	862.5	897.3	908.9
72.5°	643.9	718.3	755.5	762.5	771.8
75°	541.6	623.0	641.6	632.3	634.6
77.5°	439.4	518.4	513.8	492.8	495.2
80°	332.4	404.5	376.6	358.0	348.7
82.5°	227.8	288.3	246.4	223.2	220.8
85°	132.5	155.8	125.5	116.2	113.9
87.5°	53.5	60.4	41.8	30.2	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)