

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: P189653

Luminaire Tested: **BRG-WS-5L30-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189653
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-5L30-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 5 (1440 mA)
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

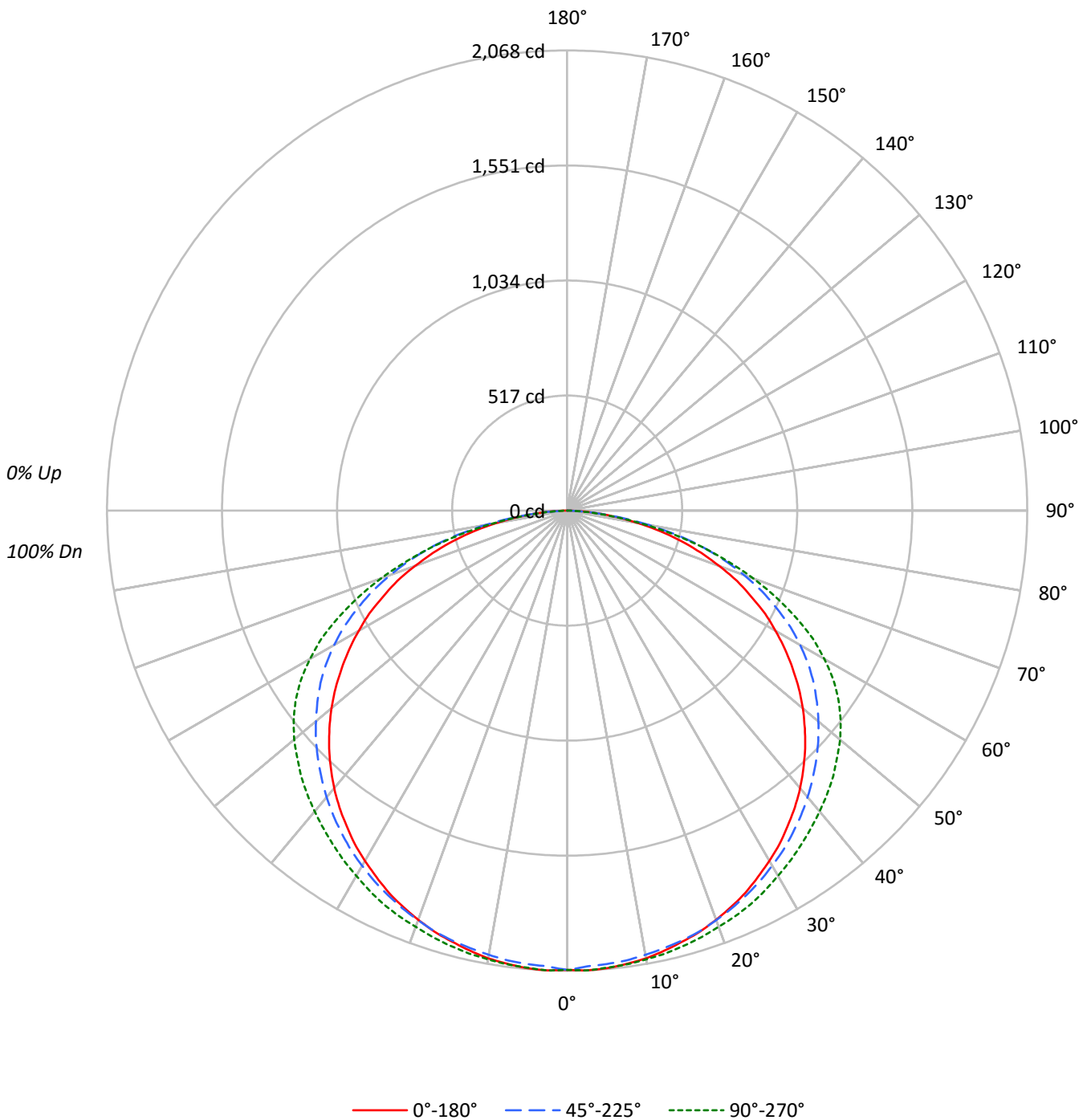
Lumens per Lamp: N/A
Luminaire Lumens: 7021.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.37 / 1.48
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3161	3161	3161
5°	3173	3145	3170
10°	3178	3153	3185
15°	3179	3172	3211
20°	3190	3193	3245
25°	3203	3222	3299
30°	3215	3259	3352
35°	3233	3305	3429
40°	3257	3362	3530
45°	3277	3430	3661
50°	3295	3512	3816
55°	3303	3613	3978
60°	3315	3706	4089
65°	3303	3765	4103
70°	3254	3785	3989
75°	3141	3721	3680
80°	2874	3256	3014
85°	2283	2162	1961



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.9	2.8
10°-20°	568.2	8.1
20°-30°	884.4	12.6
30°-40°	1112.4	15.8
40°-50°	1229.6	17.5
50°-60°	1212.6	17.3
60°-70°	1019.9	14.5
70°-80°	637.0	9.1
80°-90°	160.9	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°	1648.5	23.5
0°-40°	2760.9	39.3
0°-60°	5203.1	74.1
0°-90°	7021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7021.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2064	2064	2064	2064	2064	
5°	2064	2059	2046	2062	2062	196
15°	2005	2005	2000	2021	2025	567
25°	1895	1895	1907	1941	1952	874
35°	1729	1738	1768	1816	1834	1083
45°	1513	1531	1583	1656	1690	1167
55°	1237	1271	1353	1444	1490	1106
65°	911	968	1039	1109	1132	902
75°	531	610	629	620	622	559
85°	130	153	123	114	112	155
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2064.0	2064.0	2064.0	2064.0	2064.0
2.5°	2068.5	2066.3	2050.3	2066.3	2068.5
5°	2064.0	2059.4	2045.8	2061.7	2061.7
7.5°	2054.9	2050.3	2038.9	2054.9	2057.2
10°	2043.5	2038.9	2027.5	2048.0	2048.0
12.5°	2025.3	2023.0	2013.9	2034.4	2038.9
15°	2004.8	2004.8	2000.2	2020.7	2025.3
17.5°	1984.3	1982.0	1982.0	2007.0	2009.3
20°	1956.9	1956.9	1959.2	1986.5	1991.1
22.5°	1927.3	1927.3	1934.1	1966.0	1972.9
25°	1895.4	1895.4	1906.8	1941.0	1952.4
27.5°	1856.7	1861.2	1877.2	1913.6	1925.0
30°	1817.9	1822.5	1843.0	1881.7	1895.4
32.5°	1776.9	1783.8	1808.8	1849.8	1865.8
35°	1729.1	1738.2	1767.8	1815.7	1833.9
37.5°	1681.3	1688.1	1726.8	1779.2	1799.7
40°	1628.9	1638.0	1681.3	1740.5	1765.6
42.5°	1571.9	1587.9	1633.4	1699.5	1729.1
45°	1512.7	1530.9	1583.3	1656.2	1690.4
47.5°	1448.9	1471.7	1530.9	1610.6	1644.8
50°	1382.8	1405.6	1474.0	1560.5	1601.5
52.5°	1312.2	1341.8	1414.7	1505.8	1549.1
55°	1237.0	1271.2	1353.2	1444.3	1489.9
57.5°	1161.8	1205.1	1284.9	1376.0	1419.3
60°	1082.1	1125.4	1209.7	1296.3	1335.0
62.5°	1002.4	1045.7	1130.0	1207.4	1243.9
65°	911.3	968.2	1038.8	1109.4	1132.2
67.5°	827.0	883.9	947.7	997.8	1013.8
70°	726.7	795.1	845.2	879.4	890.7
72.5°	631.0	703.9	740.4	747.2	756.3
75°	530.8	610.5	628.8	619.7	621.9
77.5°	430.6	508.0	503.5	483.0	485.2
80°	325.8	396.4	369.1	350.8	341.7
82.5°	223.3	282.5	241.5	218.7	216.4
85°	129.9	152.6	123.0	113.9	111.6
87.5°	52.4	59.2	41.0	29.6	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)