

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: P189693

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189693
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34875)
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-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY
LIGHT LEVEL 5 (1440 mA)
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

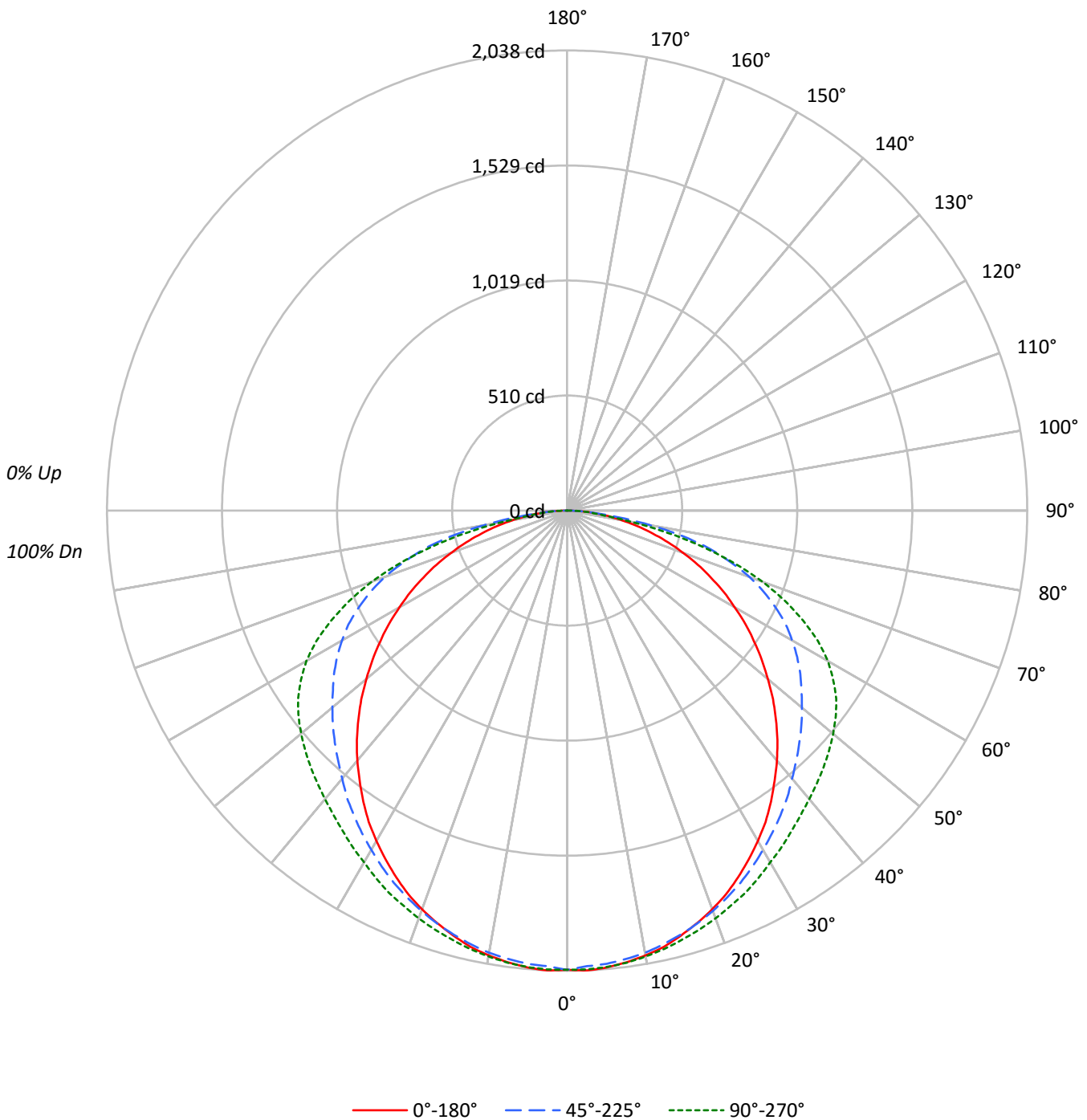
Lumens per Lamp: N/A
Luminaire Lumens: 6604.7 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.43
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	92	89	92	89	87	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	79	75	70	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	59	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	38	51	43	37	49	42	37	48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3115	3115	3115
5°	3123	3098	3120
10°	3111	3093	3119
15°	3089	3082	3120
20°	3063	3075	3133
25°	3028	3072	3156
30°	2988	3068	3181
35°	2942	3080	3239
40°	2890	3098	3336
45°	2832	3151	3480
50°	2765	3235	3664
55°	2700	3365	3885
60°	2624	3526	4085
65°	2546	3698	4180
70°	2444	3847	4124
75°	2317	3876	3693
80°	2156	3328	2512
85°	2002	2086	1835



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.4	2.9
10°-20°	551.7	8.4
20°-30°	841.4	12.7
30°-40°	1034.1	15.7
40°-50°	1125.6	17.0
50°-60°	1115.4	16.9
60°-70°	967.7	14.7
70°-80°	620.2	9.4
80°-90°	156.2	2.4
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°	1585.5	24.0
0°-40°	2619.6	39.7
0°-60°	4860.6	73.6
0°-90°	6604.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6604.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2034	2034	2034	2034	2034	
5°	2031	2027	2015	2027	2029	193
15°	1948	1948	1944	1965	1967	550
25°	1792	1799	1818	1853	1868	826
35°	1573	1592	1647	1709	1732	984
45°	1308	1355	1455	1562	1607	1009
55°	1011	1104	1260	1400	1455	904
65°	702	852	1020	1127	1153	696
75°	392	581	655	643	624	416
85°	114	176	119	104	104	128
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2033.8	2033.8	2033.8	2033.8	2033.8
2.5°	2038.5	2033.8	2019.6	2033.8	2033.8
5°	2031.4	2026.7	2014.8	2026.7	2029.1
7.5°	2017.2	2014.8	2003.0	2017.2	2019.6
10°	2000.6	1995.8	1988.7	2003.0	2005.3
12.5°	1979.2	1974.5	1967.4	1986.3	1988.7
15°	1948.4	1948.4	1943.6	1965.0	1967.4
17.5°	1915.1	1917.5	1917.5	1941.2	1946.0
20°	1879.5	1881.9	1886.7	1915.1	1922.3
22.5°	1839.2	1841.6	1853.4	1886.7	1893.8
25°	1791.7	1798.9	1817.8	1853.4	1867.7
27.5°	1741.9	1751.4	1777.5	1817.8	1834.5
30°	1689.7	1701.6	1734.8	1784.6	1798.9
32.5°	1635.1	1649.3	1692.1	1746.6	1768.0
35°	1573.4	1592.4	1647.0	1708.7	1732.4
37.5°	1509.3	1535.4	1601.9	1673.1	1699.2
40°	1445.3	1476.1	1549.7	1635.1	1668.3
42.5°	1378.8	1416.8	1502.2	1597.1	1637.5
45°	1307.6	1355.1	1454.7	1561.5	1606.6
47.5°	1236.4	1291.0	1407.3	1523.6	1573.4
50°	1160.5	1229.3	1357.5	1483.2	1537.8
52.5°	1086.9	1162.9	1307.6	1442.9	1499.8
55°	1011.0	1103.5	1260.2	1400.2	1454.7
57.5°	937.4	1039.4	1207.9	1345.6	1397.8
60°	856.7	977.7	1151.0	1283.9	1333.7
62.5°	783.1	916.0	1091.7	1212.7	1253.0
65°	702.5	852.0	1020.5	1127.3	1153.4
67.5°	626.5	790.3	944.5	1022.8	1044.2
70°	545.8	728.6	859.1	916.0	920.8
72.5°	469.9	657.4	759.4	780.8	778.4
75°	391.6	581.4	655.0	643.1	624.1
77.5°	320.4	500.7	526.8	481.8	460.4
80°	244.4	410.6	377.3	306.1	284.8
82.5°	178.0	306.1	227.8	175.6	163.7
85°	113.9	175.6	118.7	104.4	104.4
87.5°	54.6	66.4	54.6	54.6	54.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)