

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: P189683

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189683
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-5L30-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6339.8 lumens
Efficiency: N/A
Efficacy: 90.3 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

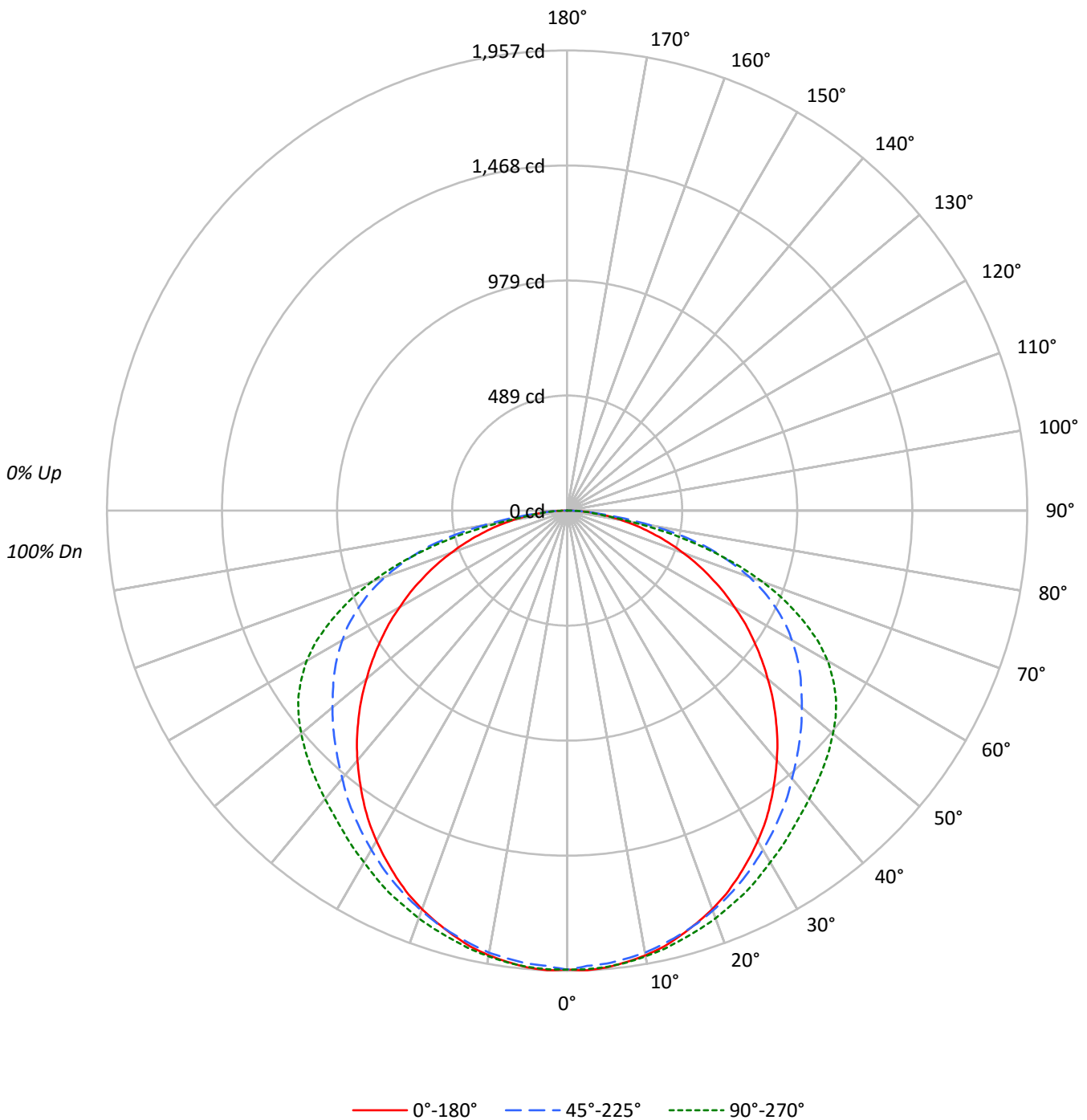
Input Watts (W): 70.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	108	103	98	94	105	100	96	92	96	92	89	92	89	87	88	86	84	82				82
2	97	88	81	75	95	86	80	74	83	77	72	79	75	70	76	72	69	67				67
3	88	77	68	61	86	75	67	61	72	65	59	69	63	58	67	62	57	55				55
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	46				46
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40				40
6	68	54	44	38	66	53	44	38	51	43	37	49	42	37	48	41	37	34				34
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30				30
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27				27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24				24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	22				22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2990	2990	2990
5°	2998	2973	2995
10°	2987	2969	2994
15°	2965	2958	2994
20°	2941	2952	3008
25°	2907	2949	3030
30°	2868	2945	3054
35°	2824	2956	3109
40°	2774	2974	3202
45°	2719	3025	3340
50°	2654	3105	3517
55°	2591	3230	3729
60°	2519	3384	3922
65°	2444	3550	4012
70°	2346	3693	3958
75°	2224	3720	3545
80°	2069	3195	2411
85°	1921	2002	1761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.7	2.9
10°-20°	529.5	8.4
20°-30°	807.7	12.7
30°-40°	992.6	15.7
40°-50°	1080.4	17.0
50°-60°	1070.7	16.9
60°-70°	928.9	14.7
70°-80°	595.3	9.4
80°-90°	150.0	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°	1521.9	24.0
0°-40°	2514.5	39.7
0°-60°	4665.6	73.6
0°-90°	6339.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6339.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1952	1952	1952	1952	1952	
5°	1950	1945	1934	1945	1948	185
15°	1870	1870	1866	1886	1888	528
25°	1720	1727	1745	1779	1793	793
35°	1510	1528	1581	1640	1663	945
45°	1255	1301	1396	1499	1542	968
55°	970	1059	1210	1344	1396	868
65°	674	818	980	1082	1107	668
75°	376	558	629	617	599	399
85°	109	169	114	100	100	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1952.2	1952.2	1952.2	1952.2	1952.2
2.5°	1956.8	1952.2	1938.6	1952.2	1952.2
5°	1950.0	1945.4	1934.0	1945.4	1947.7
7.5°	1936.3	1934.0	1922.6	1936.3	1938.6
10°	1920.3	1915.8	1909.0	1922.6	1924.9
12.5°	1899.8	1895.3	1888.4	1906.7	1909.0
15°	1870.2	1870.2	1865.7	1886.2	1888.4
17.5°	1838.3	1840.6	1840.6	1863.4	1867.9
20°	1804.2	1806.4	1811.0	1838.3	1845.2
22.5°	1765.4	1767.7	1779.1	1811.0	1817.8
25°	1719.9	1726.7	1744.9	1779.1	1792.8
27.5°	1672.0	1681.2	1706.2	1744.9	1760.9
30°	1621.9	1633.3	1665.2	1713.0	1726.7
32.5°	1569.5	1583.2	1624.2	1676.6	1697.1
35°	1510.3	1528.5	1580.9	1640.1	1662.9
37.5°	1448.8	1473.9	1537.6	1606.0	1631.0
40°	1387.3	1416.9	1487.5	1569.5	1601.4
42.5°	1323.5	1360.0	1442.0	1533.1	1571.8
45°	1255.2	1300.7	1396.4	1498.9	1542.2
47.5°	1186.8	1239.2	1350.8	1462.5	1510.3
50°	1113.9	1180.0	1303.0	1423.7	1476.1
52.5°	1043.3	1116.2	1255.2	1385.0	1439.7
55°	970.4	1059.3	1209.6	1344.0	1396.4
57.5°	899.8	997.8	1159.5	1291.6	1341.7
60°	822.4	938.5	1104.8	1232.4	1280.2
62.5°	751.7	879.3	1047.9	1164.0	1202.8
65°	674.3	817.8	979.5	1082.0	1107.1
67.5°	601.4	758.6	906.6	981.8	1002.3
70°	523.9	699.3	824.6	879.3	883.9
72.5°	451.0	631.0	729.0	749.5	747.2
75°	375.9	558.1	628.7	617.3	599.1
77.5°	307.5	480.7	505.7	462.4	441.9
80°	234.6	394.1	362.2	293.9	273.4
82.5°	170.8	293.9	218.7	168.6	157.2
85°	109.3	168.6	113.9	100.2	100.2
87.5°	52.4	63.8	52.4	52.4	52.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)