

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: P189682

Luminaire Tested: **BRG-WD-4L30-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189682
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-4L30-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY
LIGHT LEVEL 4 (1260 mA)
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5451.3 lumens
Efficiency: N/A
Efficacy: 93.2 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

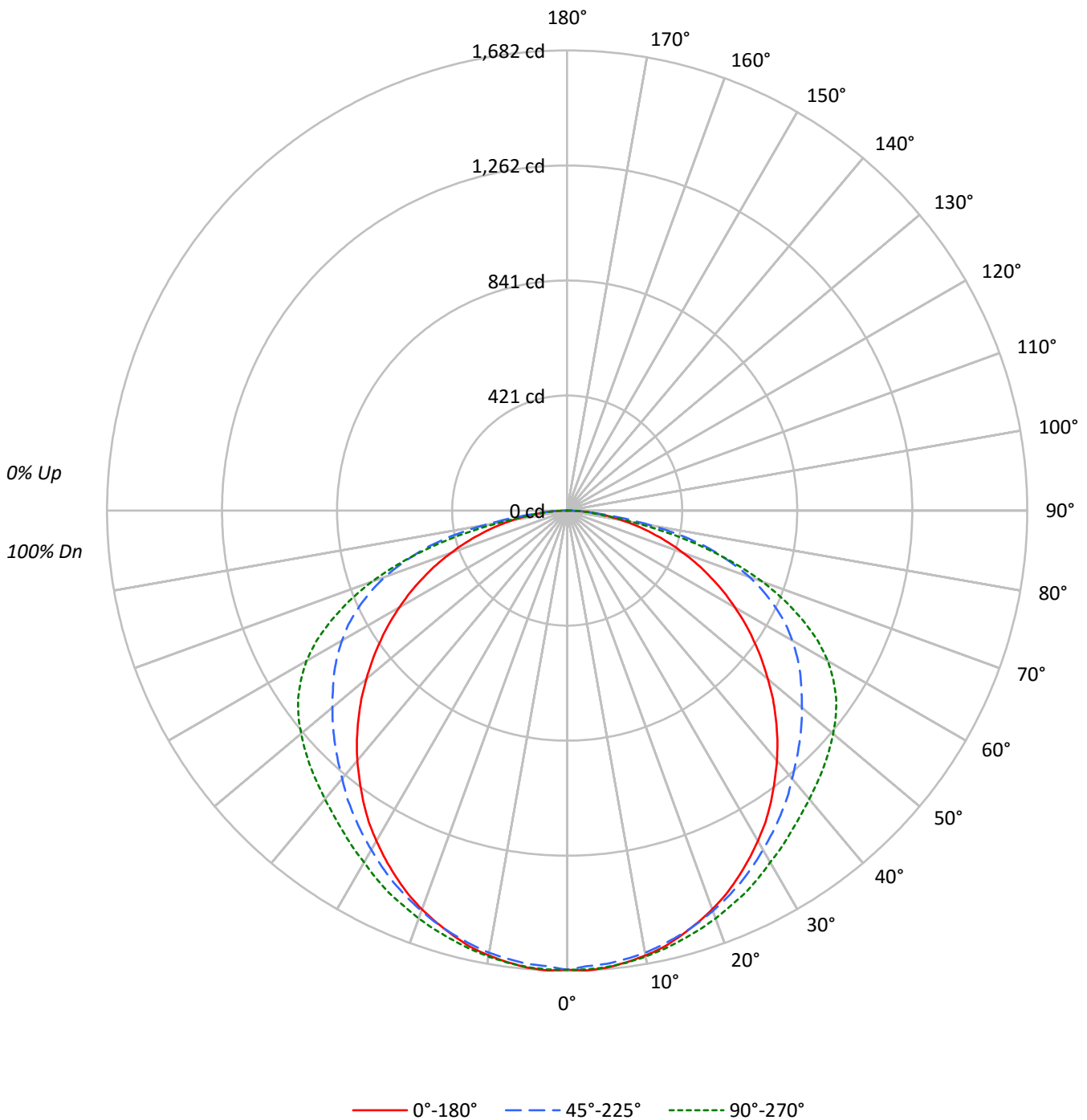
Input Watts (W): 58.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2571	2571	2571
5°	2578	2557	2575
10°	2568	2553	2574
15°	2550	2544	2575
20°	2529	2538	2586
25°	2499	2536	2605
30°	2466	2532	2626
35°	2428	2542	2674
40°	2385	2557	2753
45°	2338	2601	2872
50°	2282	2670	3024
55°	2228	2777	3206
60°	2166	2910	3372
65°	2101	3053	3450
70°	2017	3175	3403
75°	1913	3199	3048
80°	1779	2747	2073
85°	1652	1720	1515



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.8	2.9
10°-20°	455.3	8.4
20°-30°	694.5	12.7
30°-40°	853.5	15.7
40°-50°	929.0	17.0
50°-60°	920.7	16.9
60°-70°	798.7	14.7
70°-80°	511.9	9.4
80°-90°	129.0	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°	1308.6	24.0
0°-40°	2162.1	39.7
0°-60°	4011.8	73.6
0°-90°	5451.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5451.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1679	1679	1679	1679	1679	
5°	1677	1673	1663	1673	1675	159
15°	1608	1608	1604	1622	1624	454
25°	1479	1485	1500	1530	1542	681
35°	1299	1314	1359	1410	1430	812
45°	1079	1118	1201	1289	1326	833
55°	834	911	1040	1156	1201	746
65°	580	703	842	930	952	575
75°	323	480	541	531	515	343
85°	94	145	98	86	86	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1678.6	1678.6	1678.6	1678.6	1678.6
2.5°	1682.5	1678.6	1666.9	1678.6	1678.6
5°	1676.7	1672.7	1663.0	1672.7	1674.7
7.5°	1664.9	1663.0	1653.2	1664.9	1666.9
10°	1651.2	1647.3	1641.4	1653.2	1655.1
12.5°	1633.6	1629.7	1623.8	1639.5	1641.4
15°	1608.1	1608.1	1604.2	1621.8	1623.8
17.5°	1580.7	1582.6	1582.6	1602.2	1606.2
20°	1551.3	1553.3	1557.2	1580.7	1586.6
22.5°	1518.0	1520.0	1529.8	1557.2	1563.1
25°	1478.8	1484.7	1500.4	1529.8	1541.5
27.5°	1437.7	1445.5	1467.1	1500.4	1514.1
30°	1394.6	1404.4	1431.8	1473.0	1484.7
32.5°	1349.6	1361.3	1396.6	1441.6	1459.2
35°	1298.6	1314.3	1359.4	1410.3	1429.9
37.5°	1245.7	1267.3	1322.1	1380.9	1402.4
40°	1192.9	1218.3	1279.0	1349.6	1377.0
42.5°	1138.0	1169.4	1239.9	1318.2	1351.5
45°	1079.3	1118.4	1200.7	1288.8	1326.1
47.5°	1020.5	1065.5	1161.5	1257.5	1298.6
50°	957.8	1014.6	1120.4	1224.2	1269.3
52.5°	897.1	959.8	1079.3	1190.9	1237.9
55°	834.4	910.8	1040.1	1155.6	1200.7
57.5°	773.7	857.9	997.0	1110.6	1153.7
60°	707.1	807.0	950.0	1059.7	1100.8
62.5°	646.4	756.1	901.0	1000.9	1034.2
65°	579.8	703.2	842.3	930.4	951.9
67.5°	517.1	652.3	779.6	844.2	861.8
70°	450.5	601.3	709.1	756.1	760.0
72.5°	387.8	542.6	626.8	644.4	642.5
75°	323.2	479.9	540.6	530.8	515.1
77.5°	264.4	413.3	434.8	397.6	380.0
80°	201.7	338.9	311.4	252.7	235.0
82.5°	146.9	252.7	188.0	144.9	135.2
85°	94.0	144.9	97.9	86.2	86.2
87.5°	45.1	54.8	45.1	45.1	45.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)