

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: P189680

Luminaire Tested: **BRG-WD-2L30-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189680
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-2L30-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY
LIGHT LEVEL 2 (820 mA)
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

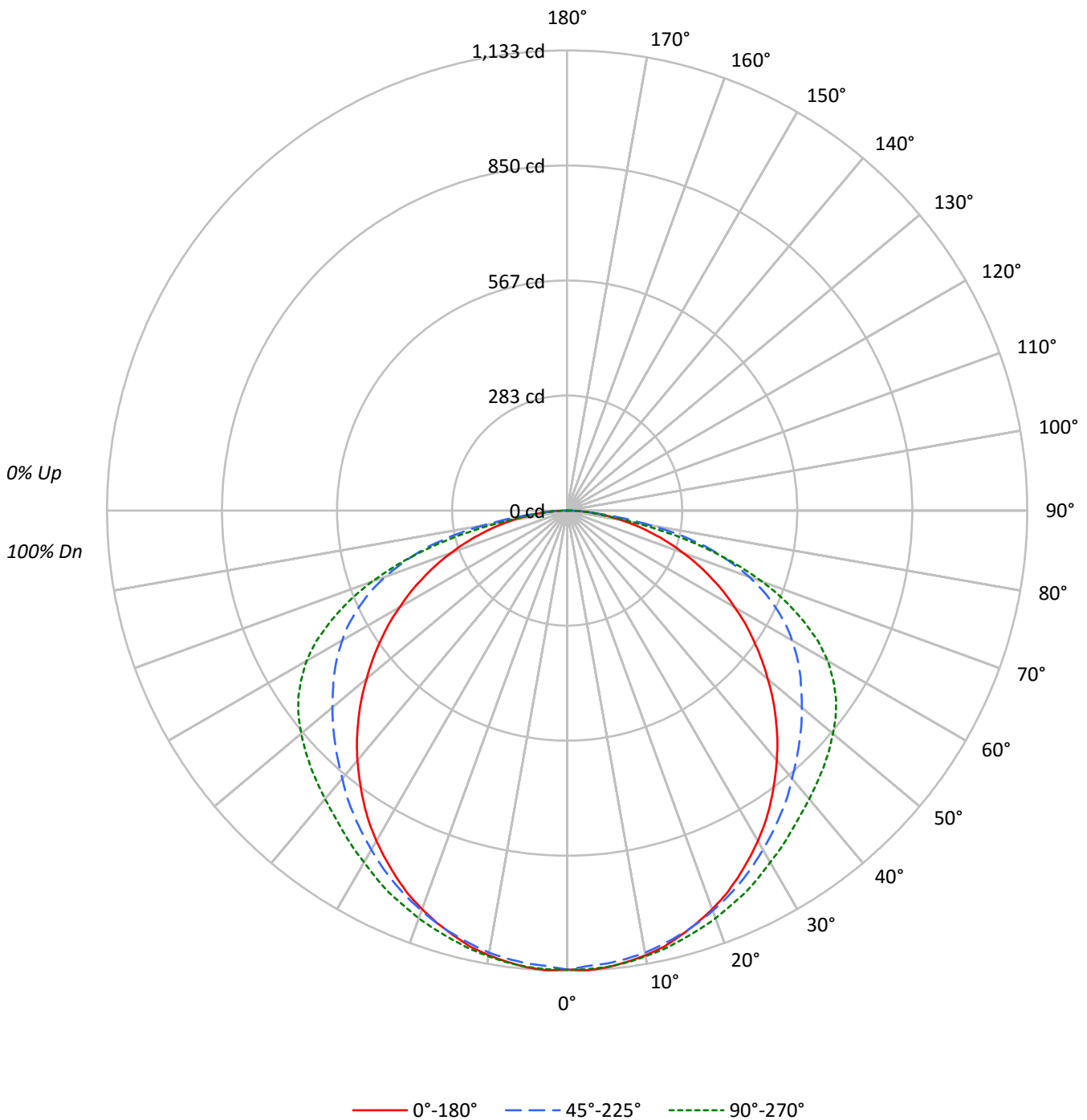
Lumens per Lamp: N/A
Luminaire Lumens: 3670.6 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.43
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 38.5
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°	1731	1731	1731
5°	1736	1722	1734
10°	1729	1719	1733
15°	1717	1713	1734
20°	1703	1709	1741
25°	1683	1707	1754
30°	1661	1705	1768
35°	1635	1711	1800
40°	1606	1722	1854
45°	1574	1751	1934
50°	1537	1798	2036
55°	1500	1870	2159
60°	1458	1960	2270
65°	1415	2055	2323
70°	1358	2138	2291
75°	1288	2154	2053
80°	1198	1850	1396
85°	1112	1158	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	2.9
10°-20°	306.6	8.4
20°-30°	467.6	12.7
30°-40°	574.7	15.7
40°-50°	625.5	17.0
50°-60°	619.9	16.9
60°-70°	537.8	14.7
70°-80°	344.6	9.4
80°-90°	86.8	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°	881.1	24.0
0°-40°	1455.9	39.7
0°-60°	2701.3	73.6
0°-90°	3670.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3670.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1130	1130	1130	1130	1130	
5°	1129	1126	1120	1126	1128	107
15°	1083	1083	1080	1092	1093	306
25°	996	1000	1010	1030	1038	459
35°	874	885	915	950	963	547
45°	727	753	808	868	893	561
55°	562	613	700	778	808	503
65°	390	474	567	626	641	387
75°	218	323	364	357	347	231
85°	63	98	66	58	58	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1130.3	1130.3	1130.3	1130.3	1130.3
2.5°	1132.9	1130.3	1122.4	1130.3	1130.3
5°	1129.0	1126.3	1119.7	1126.3	1127.7
7.5°	1121.1	1119.7	1113.2	1121.1	1122.4
10°	1111.8	1109.2	1105.2	1113.2	1114.5
12.5°	1100.0	1097.3	1093.4	1103.9	1105.2
15°	1082.8	1082.8	1080.2	1092.1	1093.4
17.5°	1064.4	1065.7	1065.7	1078.9	1081.5
20°	1044.6	1045.9	1048.5	1064.4	1068.3
22.5°	1022.1	1023.5	1030.1	1048.5	1052.5
25°	995.8	999.7	1010.3	1030.1	1038.0
27.5°	968.1	973.3	987.9	1010.3	1019.5
30°	939.1	945.7	964.1	991.8	999.7
32.5°	908.7	916.6	940.4	970.7	982.6
35°	874.4	885.0	915.3	949.6	962.8
37.5°	838.8	853.3	890.3	929.8	944.3
40°	803.2	820.4	861.2	908.7	927.2
42.5°	766.3	787.4	834.9	887.6	910.0
45°	726.7	753.1	808.5	867.8	892.9
47.5°	687.1	717.5	782.1	846.7	874.4
50°	644.9	683.2	754.4	824.3	854.6
52.5°	604.1	646.3	726.7	801.9	833.5
55°	561.9	613.3	700.3	778.2	808.5
57.5°	521.0	577.7	671.3	747.8	776.8
60°	476.1	543.4	639.7	713.5	741.2
62.5°	435.2	509.1	606.7	674.0	696.4
65°	390.4	473.5	567.1	626.5	641.0
67.5°	348.2	439.2	524.9	568.4	580.3
70°	303.3	404.9	477.4	509.1	511.7
72.5°	261.1	365.3	422.0	433.9	432.6
75°	217.6	323.1	364.0	357.4	346.9
77.5°	178.1	278.3	292.8	267.7	255.9
80°	135.8	228.2	209.7	170.1	158.3
82.5°	98.9	170.1	126.6	97.6	91.0
85°	63.3	97.6	65.9	58.0	58.0
87.5°	30.3	36.9	30.3	30.3	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)