

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: P189684

Luminaire Tested: **BRG-WD-1L35-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189684
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-1L35-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY
LIGHT LEVEL 1 (615 mA)
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

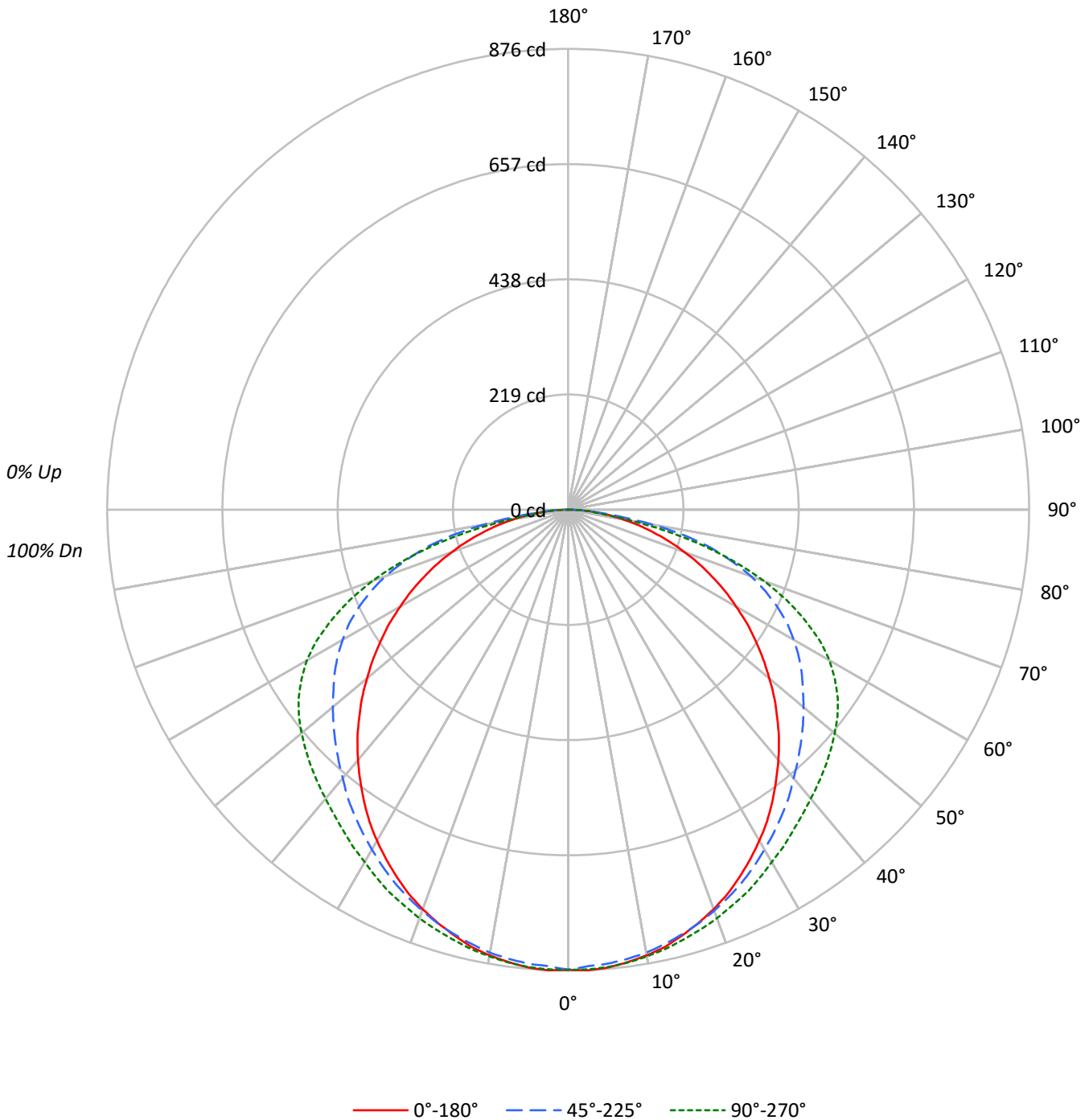
Lumens per Lamp: N/A
Luminaire Lumens: 2839.8 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.43
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): 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°	1339	1339	1339
5°	1343	1332	1341
10°	1338	1330	1341
15°	1328	1325	1341
20°	1317	1322	1347
25°	1302	1321	1357
30°	1285	1319	1368
35°	1265	1324	1393
40°	1242	1332	1434
45°	1218	1355	1496
50°	1189	1391	1576
55°	1161	1447	1670
60°	1129	1516	1757
65°	1094	1590	1797
70°	1051	1654	1773
75°	997	1666	1588
80°	927	1431	1080
85°	861	896	789



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	2.9
10°-20°	237.2	8.4
20°-30°	361.8	12.7
30°-40°	444.6	15.7
40°-50°	484.0	17.0
50°-60°	479.6	16.9
60°-70°	416.1	14.7
70°-80°	266.6	9.4
80°-90°	67.2	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°	681.7	24.0
0°-40°	1126.3	39.7
0°-60°	2089.9	73.6
0°-90°	2839.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2839.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	874	874	874	874	874	
5°	874	871	866	871	872	83
15°	838	838	836	845	846	236
25°	770	774	782	797	803	355
35°	676	685	708	735	745	423
45°	562	583	626	671	691	434
55°	435	474	542	602	626	389
65°	302	366	439	485	496	299
75°	168	250	282	276	268	179
85°	49	76	51	45	45	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	874.5	874.5	874.5	874.5	874.5
2.5°	876.5	874.5	868.4	874.5	874.5
5°	873.5	871.4	866.3	871.4	872.4
7.5°	867.3	866.3	861.2	867.3	868.4
10°	860.2	858.1	855.1	861.2	862.2
12.5°	851.0	849.0	845.9	854.1	855.1
15°	837.7	837.7	835.7	844.9	845.9
17.5°	823.5	824.5	824.5	834.7	836.7
20°	808.1	809.2	811.2	823.5	826.5
22.5°	790.8	791.8	796.9	811.2	814.3
25°	770.4	773.5	781.6	796.9	803.0
27.5°	749.0	753.0	764.3	781.6	788.8
30°	726.5	731.6	745.9	767.3	773.5
32.5°	703.0	709.2	727.5	751.0	760.2
35°	676.5	684.7	708.2	734.7	744.9
37.5°	649.0	660.2	688.8	719.4	730.6
40°	621.4	634.7	666.3	703.0	717.3
42.5°	592.8	609.2	645.9	686.7	704.1
45°	562.2	582.6	625.5	671.4	690.8
47.5°	531.6	555.1	605.1	655.1	676.5
50°	499.0	528.6	583.7	637.7	661.2
52.5°	467.3	500.0	562.2	620.4	644.9
55°	434.7	474.5	541.8	602.0	625.5
57.5°	403.1	446.9	519.4	578.6	601.0
60°	368.4	420.4	494.9	552.0	573.5
62.5°	336.7	393.9	469.4	521.4	538.8
65°	302.0	366.3	438.8	484.7	495.9
67.5°	269.4	339.8	406.1	439.8	449.0
70°	234.7	313.3	369.4	393.9	395.9
72.5°	202.0	282.6	326.5	335.7	334.7
75°	168.4	250.0	281.6	276.5	268.4
77.5°	137.8	215.3	226.5	207.1	198.0
80°	105.1	176.5	162.2	131.6	122.4
82.5°	76.5	131.6	98.0	75.5	70.4
85°	49.0	75.5	51.0	44.9	44.9
87.5°	23.5	28.6	23.5	23.5	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)