

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: P189546

Luminaire Tested: **BRG-WD-3L35-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34970)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WD-3L35-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY
LIGHT LEVEL 3 (628 mA)
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2831.3 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

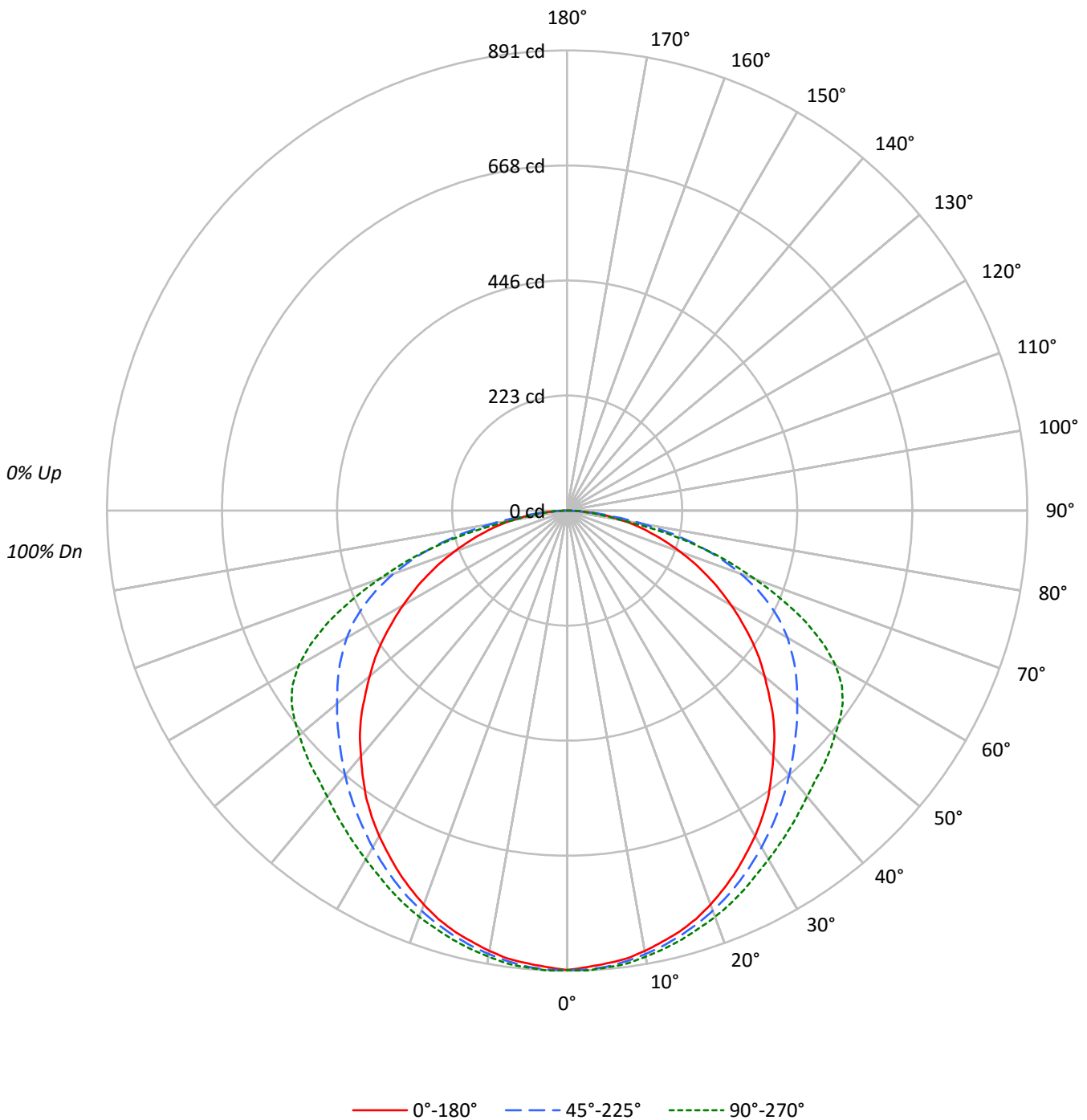
Input Watts (W): 28.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	96	93	96	93	90	92	89	87	89	86	84	82
2	97	89	81	75	95	87	80	74	83	77	73	80	75	71	77	73	69	67
3	88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	56	50	62	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	30
8	59	45	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	29	24	50	37	29	24	36	29	24	35	28	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2849	2849	2849
5°	2829	2850	2855
10°	2815	2836	2852
15°	2797	2823	2849
20°	2767	2810	2853
25°	2728	2795	2863
30°	2691	2785	2884
35°	2652	2782	2938
40°	2597	2796	3022
45°	2554	2827	3173
50°	2485	2897	3371
55°	2430	3016	3636
60°	2351	3154	3846
65°	2275	3286	3864
70°	2171	3347	3614
75°	2084	3263	3185
80°	1992	2783	1962
85°	1753	1867	1459



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.1	3.0
10°-20°	240.3	8.5
20°-30°	364.7	12.9
30°-40°	446.6	15.8
40°-50°	485.2	17.1
50°-60°	483.2	17.1
60°-70°	414.0	14.6
70°-80°	253.0	8.9
80°-90°	60.2	2.1
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°	689.1	24.3
0°-40°	1135.7	40.1
0°-60°	2104.1	74.3
0°-90°	2831.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2831.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	890	890	890	890	890	
5°	880	883	886	888	888	84
15°	844	845	852	858	859	238
25°	772	777	791	804	810	356
35°	678	686	712	739	751	424
45°	564	580	624	674	701	434
55°	435	469	540	613	651	388
65°	300	356	434	489	510	297
75°	168	232	264	264	257	179
85°	48	64	51	43	40	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	889.6	889.6	889.6	889.6	889.6
2.5°	884.8	886.4	889.6	891.2	891.2
5°	880.1	883.3	886.4	888.0	888.0
7.5°	875.3	876.9	880.1	883.3	884.8
10°	865.8	867.4	872.1	876.9	876.9
12.5°	854.7	857.8	862.6	867.4	869.0
15°	843.5	845.1	851.5	857.8	859.4
17.5°	829.2	830.8	838.8	846.7	848.3
20°	811.8	814.9	824.5	832.4	837.2
22.5°	792.7	795.9	808.6	819.7	824.5
25°	772.1	776.8	791.1	803.8	810.2
27.5°	749.8	756.2	772.1	787.9	794.3
30°	727.6	733.9	753.0	772.1	780.0
32.5°	703.7	711.7	732.3	754.6	765.7
35°	678.3	686.3	711.7	738.7	751.4
37.5°	649.7	662.4	691.0	722.8	737.1
40°	621.1	635.4	668.8	705.3	722.8
42.5°	594.1	608.4	646.6	689.5	710.1
45°	564.0	579.8	624.3	673.6	700.6
47.5°	530.6	552.8	603.7	659.3	689.5
50°	498.8	524.2	581.4	645.0	676.7
52.5°	468.6	497.2	560.8	630.7	665.6
55°	435.3	468.6	540.1	613.2	651.3
57.5°	400.3	440.0	516.3	592.5	630.7
60°	367.0	411.4	492.5	567.1	600.5
62.5°	333.6	386.0	465.5	533.8	559.2
65°	300.2	355.8	433.7	489.3	509.9
67.5°	266.9	328.8	398.7	438.5	449.6
70°	231.9	297.1	357.4	381.3	386.0
72.5°	200.2	265.3	313.0	324.1	325.7
75°	168.4	231.9	263.7	263.7	257.4
77.5°	139.8	193.8	209.7	197.0	185.9
80°	108.0	149.3	150.9	122.3	106.4
82.5°	77.8	106.4	93.7	73.1	65.1
85°	47.7	63.5	50.8	42.9	39.7
87.5°	17.5	20.7	17.5	19.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)