

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: P189552

Luminaire Tested: **BRG-WD-3L40-LD2-UNV-22-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189552  
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-3L40-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) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

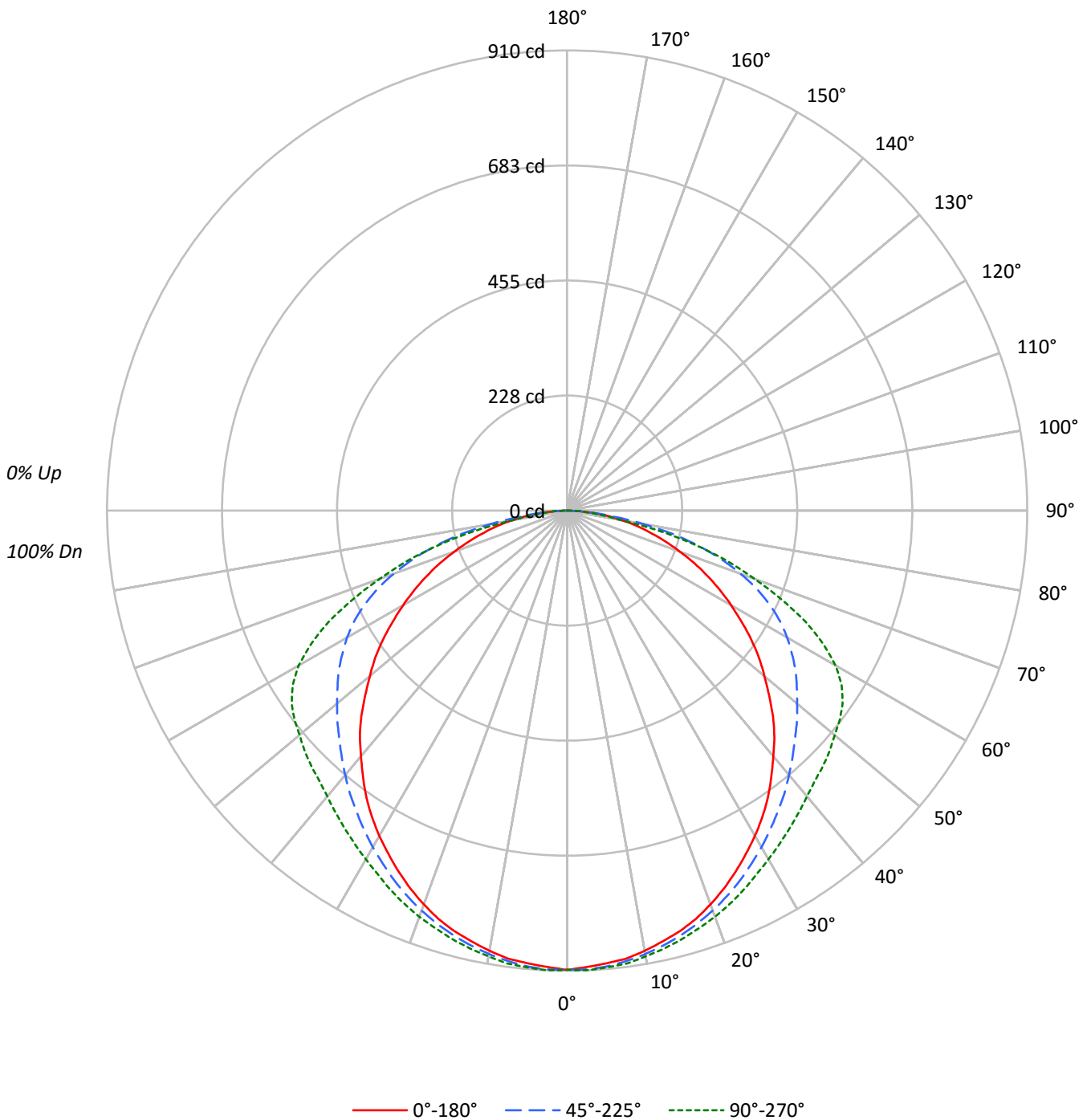
Lumens per Lamp: N/A  
Luminaire Lumens: 2890.6 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.42  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	2909	2909	2909
5°	2888	2909	2914
10°	2874	2895	2911
15°	2855	2882	2909
20°	2825	2869	2913
25°	2785	2854	2923
30°	2747	2843	2945
35°	2707	2841	2999
40°	2651	2854	3085
45°	2608	2887	3239
50°	2537	2957	3442
55°	2481	3079	3713
60°	2399	3220	3927
65°	2323	3355	3945
70°	2217	3417	3690
75°	2127	3331	3251
80°	2034	2842	2005
85°	1789	1907	1488



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.9	3.0
10°-20°	245.3	8.5
20°-30°	372.3	12.9
30°-40°	456.0	15.8
40°-50°	495.3	17.1
50°-60°	493.3	17.1
60°-70°	422.7	14.6
70°-80°	258.3	8.9
80°-90°	61.5	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°	703.5	24.3
0°-40°	1159.5	40.1
0°-60°	2148.1	74.3
0°-90°	2890.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2890.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	898	902	905	907	907	85
15°	861	863	869	876	877	243
25°	788	793	808	821	827	363
35°	692	701	727	754	767	433
45°	576	592	637	688	715	443
55°	444	478	551	626	665	397
65°	306	363	443	500	521	303
75°	172	237	269	269	263	183
85°	49	65	52	44	40	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	908.2	908.2	908.2	908.2	908.2
2.5°	903.4	905.0	908.2	909.9	909.9
5°	898.5	901.7	905.0	906.6	906.6
7.5°	893.6	895.3	898.5	901.7	903.4
10°	883.9	885.5	890.4	895.3	895.3
12.5°	872.6	875.8	880.7	885.5	887.1
15°	861.2	862.8	869.3	875.8	877.4
17.5°	846.6	848.2	856.3	864.4	866.1
20°	828.8	832.0	841.7	849.8	854.7
22.5°	809.3	812.5	825.5	836.9	841.7
25°	788.2	793.1	807.7	820.7	827.1
27.5°	765.5	772.0	788.2	804.4	810.9
30°	742.8	749.3	768.8	788.2	796.3
32.5°	718.5	726.6	747.7	770.4	781.7
35°	692.5	700.6	726.6	754.2	767.1
37.5°	663.3	676.3	705.5	737.9	752.5
40°	634.1	648.7	682.8	720.1	737.9
42.5°	606.6	621.2	660.1	703.9	725.0
45°	575.8	592.0	637.4	687.7	715.2
47.5°	541.7	564.4	616.3	673.1	703.9
50°	509.3	535.2	593.6	658.5	690.9
52.5°	478.4	507.6	572.5	643.9	679.6
55°	444.4	478.4	551.4	626.0	665.0
57.5°	408.7	449.3	527.1	604.9	643.9
60°	374.6	420.1	502.8	579.0	613.1
62.5°	340.6	394.1	475.2	544.9	570.9
65°	306.5	363.3	442.8	499.5	520.6
67.5°	272.5	335.7	407.1	447.6	459.0
70°	236.8	303.3	364.9	389.2	394.1
72.5°	204.4	270.8	319.5	330.9	332.5
75°	171.9	236.8	269.2	269.2	262.7
77.5°	142.7	197.9	214.1	201.1	189.8
80°	110.3	152.5	154.1	124.9	108.7
82.5°	79.5	108.7	95.7	74.6	66.5
85°	48.7	64.9	51.9	43.8	40.5
87.5°	17.8	21.1	17.8	19.5	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)