

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: P189516

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189516  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34939)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: BRG-WS-3L40-LD2-UNV-22-STD  
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 3 (628 mA)  
Light Source: (168) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

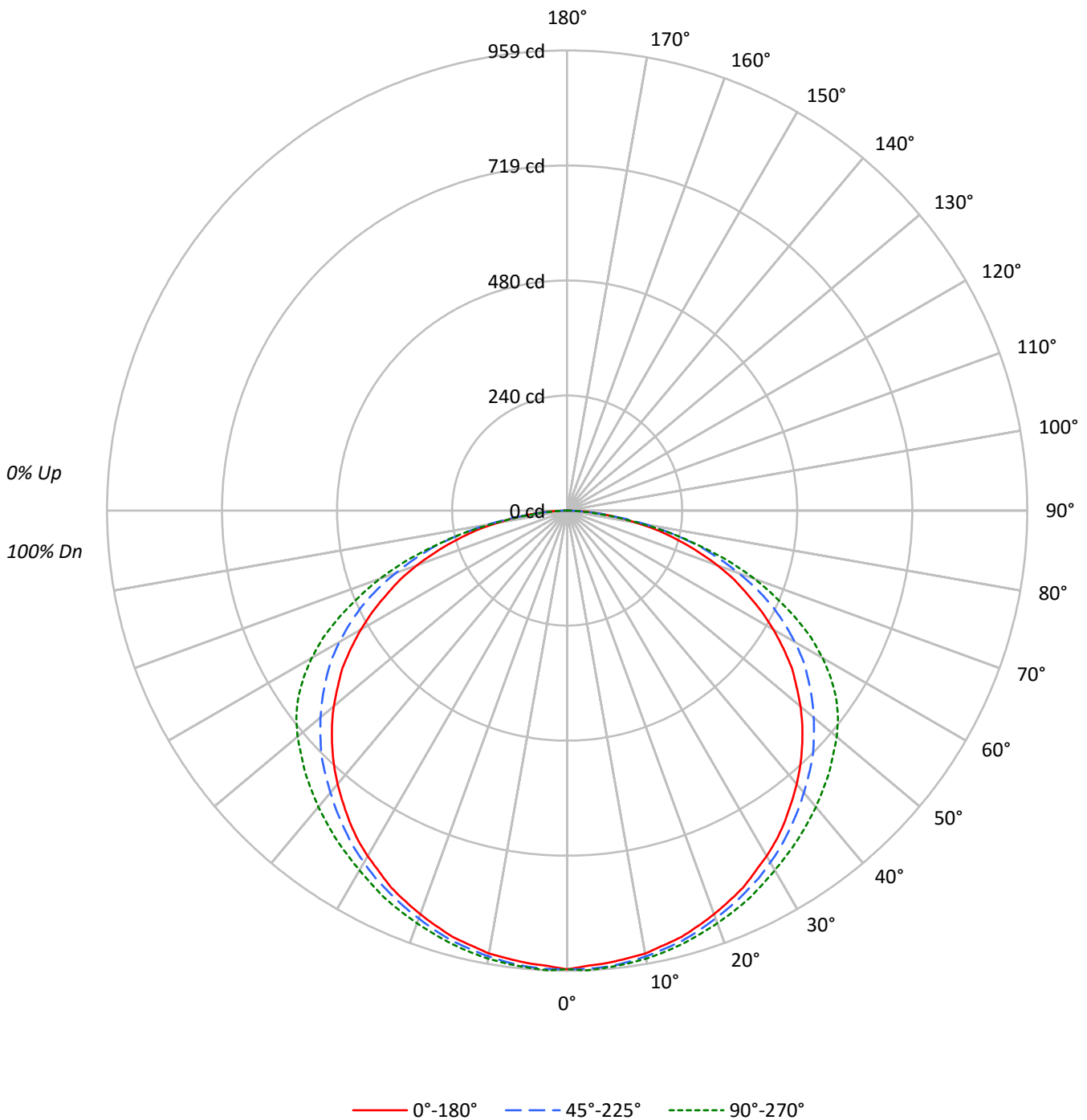
Lumens per Lamp: N/A  
Luminaire Lumens: 3204.5 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.36 / 1.47  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

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	100	96	92	96	93	89	92	89	87	89	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	47
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40
6	68	54	45	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	40	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	28	24	35	28	23	34	28	23	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3061	3061	3061
5°	3043	3068	3073
10°	3048	3068	3083
15°	3051	3076	3097
20°	3051	3083	3120
25°	3064	3103	3158
30°	3074	3132	3201
35°	3092	3165	3275
40°	3111	3209	3371
45°	3138	3279	3497
50°	3165	3343	3653
55°	3190	3425	3825
60°	3181	3510	3938
65°	3150	3574	3964
70°	3120	3557	3892
75°	2986	3505	3564
80°	2728	3043	2871
85°	2230	2175	1889



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.6	2.8
10°-20°	261.9	8.2
20°-30°	405.5	12.7
30°-40°	508.4	15.9
40°-50°	561.4	17.5
50°-60°	553.3	17.3
60°-70°	464.1	14.5
70°-80°	287.3	9.0
80°-90°	71.9	2.2
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°	758.1	23.7
0°-40°	1266.5	39.5
0°-60°	2381.2	74.3
0°-90°	3204.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3204.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	947	950	954	956	956	90
15°	920	922	928	932	934	260
25°	867	869	878	889	894	400
35°	791	794	810	828	838	495
45°	693	699	724	754	772	534
55°	571	579	613	658	685	509
65°	416	436	472	508	523	412
75°	241	266	283	283	288	255
85°	61	68	59	51	51	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	955.9	955.9	955.9	955.9	955.9
2.5°	949.7	952.8	955.9	959.0	959.0
5°	946.6	949.7	954.3	955.9	955.9
7.5°	941.9	945.0	949.7	951.2	952.8
10°	937.2	938.8	943.4	946.6	948.1
12.5°	927.9	931.0	935.7	940.3	941.9
15°	920.1	921.6	927.9	932.5	934.1
17.5°	907.6	910.7	917.0	923.2	924.8
20°	895.2	896.7	904.5	912.3	915.4
22.5°	881.2	884.3	892.1	901.4	904.5
25°	867.2	868.7	878.1	888.9	893.6
27.5°	848.5	853.1	864.0	873.4	879.6
30°	831.3	834.5	846.9	859.4	865.6
32.5°	812.7	815.8	829.8	845.4	851.6
35°	790.9	794.0	809.5	828.2	837.6
37.5°	767.5	772.2	789.3	811.1	822.0
40°	744.2	748.8	767.5	794.0	806.4
42.5°	719.3	723.9	745.7	775.3	789.3
45°	692.8	699.0	723.9	753.5	772.2
47.5°	664.8	672.5	697.5	734.8	751.9
50°	635.2	641.4	671.0	711.5	733.3
52.5°	602.5	611.8	643.0	688.1	711.5
55°	571.4	579.1	613.4	658.5	685.0
57.5°	534.0	546.4	583.8	627.4	652.3
60°	496.6	510.6	548.0	591.6	614.9
62.5°	457.7	474.8	510.6	552.7	572.9
65°	415.7	435.9	471.7	507.5	523.1
67.5°	376.8	395.4	428.1	456.2	468.6
70°	333.2	353.4	379.9	403.2	415.7
72.5°	286.5	311.4	331.6	344.1	355.0
75°	241.3	266.2	283.3	283.3	288.0
77.5°	197.7	216.4	225.7	222.6	225.7
80°	147.9	166.6	165.0	158.8	155.7
82.5°	102.8	115.2	109.0	99.6	96.5
85°	60.7	68.5	59.2	51.4	51.4
87.5°	24.9	26.5	18.7	14.0	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)