

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: P189509

Luminaire Tested: **BRG-WS-2L35-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189509
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-2L35-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 2 (506 mA)
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

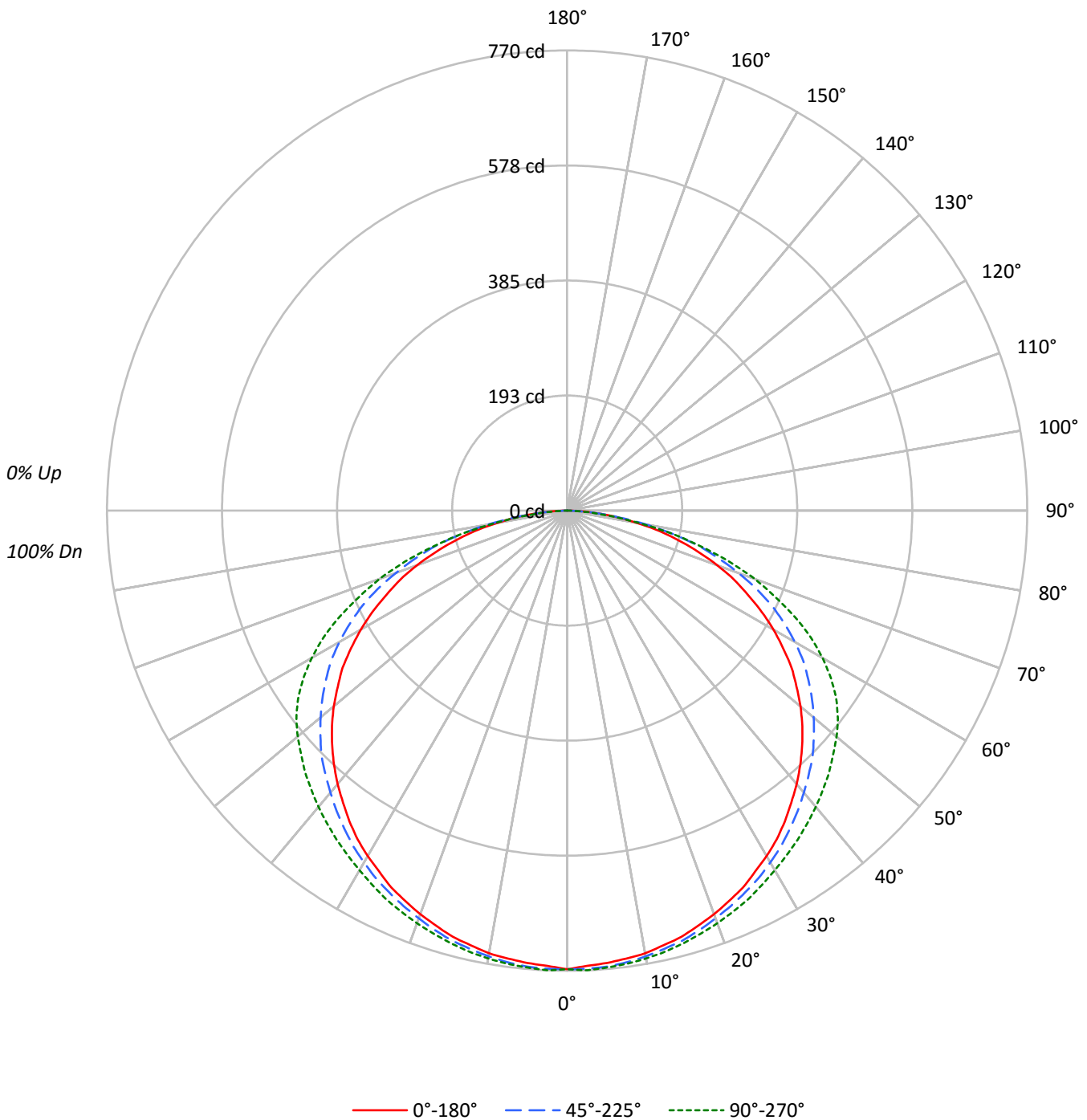
Lumens per Lamp: N/A
Luminaire Lumens: 2572.5 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.36 / 1.47
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
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	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°	2458	2458	2458
5°	2443	2463	2467
10°	2447	2463	2475
15°	2449	2470	2486
20°	2449	2475	2505
25°	2460	2491	2535
30°	2468	2514	2570
35°	2482	2541	2629
40°	2497	2576	2706
45°	2519	2632	2808
50°	2540	2684	2933
55°	2561	2749	3070
60°	2554	2818	3162
65°	2529	2870	3182
70°	2505	2855	3125
75°	2397	2815	2861
80°	2189	2444	2305
85°	1789	1745	1514



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	2.8
10°-20°	210.2	8.2
20°-30°	325.6	12.7
30°-40°	408.2	15.9
40°-50°	450.6	17.5
50°-60°	444.2	17.3
60°-70°	372.6	14.5
70°-80°	230.7	9.0
80°-90°	57.7	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°	608.5	23.7
0°-40°	1016.7	39.5
0°-60°	1911.5	74.3
0°-90°	2572.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2572.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	760	762	766	767	767	72
15°	739	740	745	749	750	208
25°	696	697	705	714	717	321
35°	635	637	650	665	672	397
45°	556	561	581	605	620	429
55°	459	465	492	529	550	408
65°	334	350	379	407	420	331
75°	194	214	228	228	231	205
85°	49	55	48	41	41	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	767.4	767.4	767.4	767.4	767.4
2.5°	762.4	764.9	767.4	769.9	769.9
5°	759.9	762.4	766.1	767.4	767.4
7.5°	756.1	758.6	762.4	763.6	764.9
10°	752.4	753.6	757.4	759.9	761.1
12.5°	744.9	747.4	751.1	754.9	756.1
15°	738.6	739.9	744.9	748.6	749.9
17.5°	728.6	731.1	736.1	741.1	742.4
20°	718.6	719.9	726.1	732.4	734.9
22.5°	707.4	709.9	716.1	723.6	726.1
25°	696.1	697.4	704.9	713.6	717.4
27.5°	681.1	684.9	693.6	701.1	706.1
30°	667.4	669.9	679.9	689.9	694.9
32.5°	652.4	654.9	666.1	678.6	683.6
35°	634.9	637.4	649.9	664.9	672.4
37.5°	616.1	619.9	633.6	651.1	659.9
40°	597.4	601.1	616.1	637.4	647.4
42.5°	577.4	581.1	598.6	622.4	633.6
45°	556.1	561.1	581.1	604.9	619.9
47.5°	533.7	539.9	559.9	589.9	603.6
50°	509.9	514.9	538.7	571.1	588.6
52.5°	483.7	491.2	516.2	552.4	571.1
55°	458.7	464.9	492.4	528.7	549.9
57.5°	428.7	438.7	468.7	503.7	523.7
60°	398.7	409.9	439.9	474.9	493.7
62.5°	367.4	381.2	409.9	443.7	459.9
65°	333.7	349.9	378.7	407.4	419.9
67.5°	302.4	317.4	343.7	366.2	376.2
70°	267.5	283.7	304.9	323.7	333.7
72.5°	230.0	250.0	266.2	276.2	284.9
75°	193.7	213.7	227.5	227.5	231.2
77.5°	158.7	173.7	181.2	178.7	181.2
80°	118.7	133.7	132.5	127.5	125.0
82.5°	82.5	92.5	87.5	80.0	77.5
85°	48.7	55.0	47.5	41.2	41.2
87.5°	20.0	21.2	15.0	11.2	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)