

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: P189515

Luminaire Tested: **BRG-WS-2L40-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189515
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-2L40-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 2 (506 mA)
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

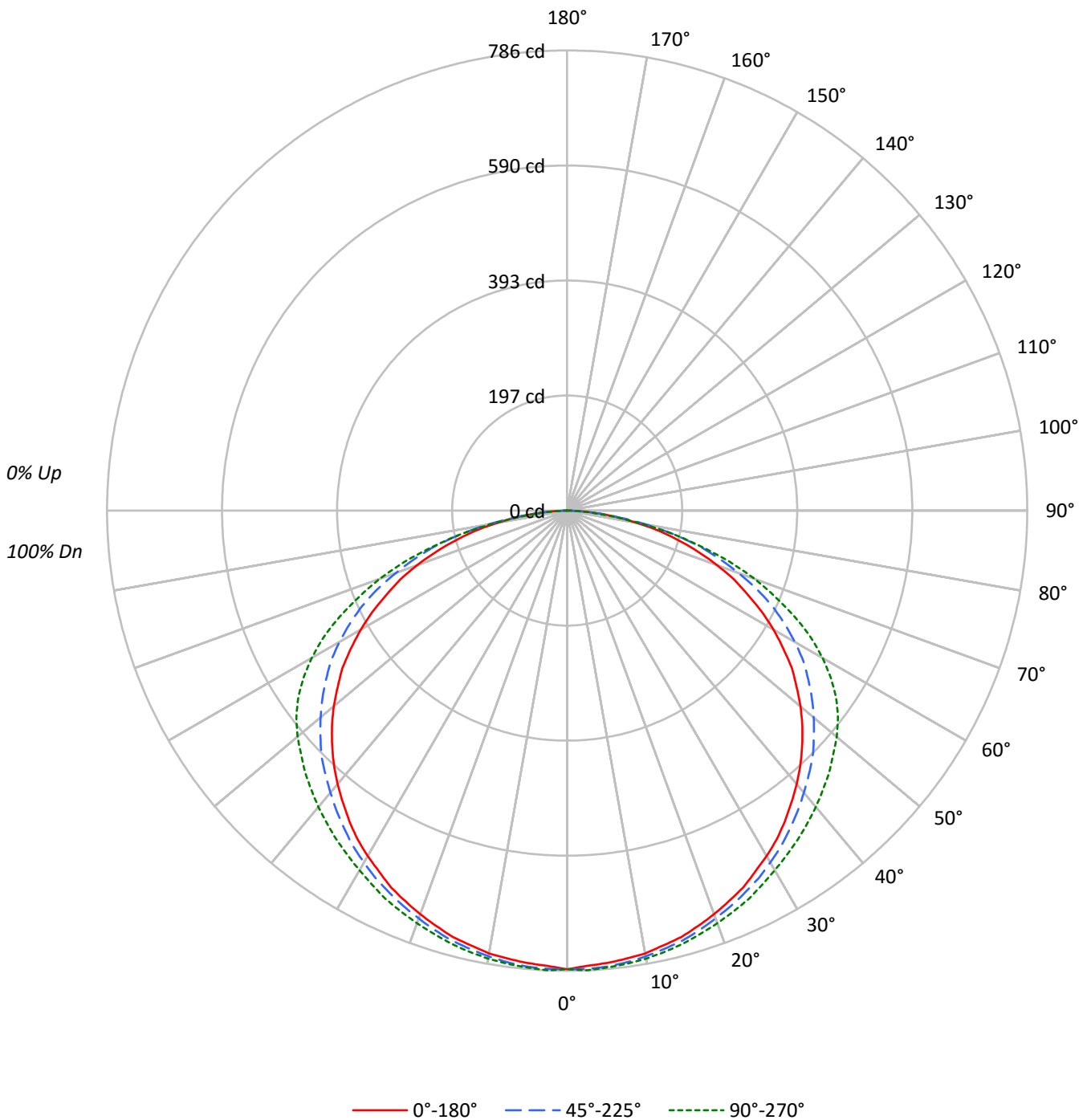
Lumens per Lamp: N/A
Luminaire Lumens: 2626.3 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.36 / 1.47
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82					82			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67					67			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55					55			
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	47					47			
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40					40			
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	41	37	34					34			
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30					30			
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27					27			
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24					24			
10	51	37	29	24	50	37	29	24	36	28	24	35	28	23	34	28	23	21					21			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2509	2509	2509
5°	2494	2514	2518
10°	2498	2514	2527
15°	2500	2521	2538
20°	2500	2526	2557
25°	2511	2543	2588
30°	2519	2567	2623
35°	2534	2594	2684
40°	2550	2630	2763
45°	2572	2687	2866
50°	2594	2740	2994
55°	2615	2807	3135
60°	2607	2876	3228
65°	2582	2930	3249
70°	2556	2915	3190
75°	2447	2873	2920
80°	2235	2493	2353
85°	1830	1782	1547



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.3	2.8
10°-20°	214.6	8.2
20°-30°	332.4	12.7
30°-40°	416.7	15.9
40°-50°	460.1	17.5
50°-60°	453.5	17.3
60°-70°	380.4	14.5
70°-80°	235.5	9.0
80°-90°	58.9	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°	621.3	23.7
0°-40°	1038.0	39.5
0°-60°	1951.5	74.3
0°-90°	2626.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2626.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	783	783	783	783	783	
5°	776	778	782	783	783	74
15°	754	755	760	764	766	213
25°	711	712	720	729	732	327
35°	648	651	664	679	686	406
45°	568	573	593	618	633	438
55°	468	475	503	540	561	417
65°	341	357	387	416	429	338
75°	198	218	232	232	236	209
85°	50	56	48	42	42	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	783.4	783.4	783.4	783.4	783.4
2.5°	778.3	780.9	783.4	786.0	786.0
5°	775.8	778.3	782.1	783.4	783.4
7.5°	771.9	774.5	778.3	779.6	780.9
10°	768.1	769.4	773.2	775.8	777.0
12.5°	760.5	763.0	766.8	770.7	771.9
15°	754.1	755.4	760.5	764.3	765.6
17.5°	743.9	746.4	751.5	756.6	757.9
20°	733.7	734.9	741.3	747.7	750.2
22.5°	722.2	724.7	731.1	738.8	741.3
25°	710.7	712.0	719.6	728.6	732.4
27.5°	695.4	699.2	708.1	715.8	720.9
30°	681.3	683.9	694.1	704.3	709.4
32.5°	666.0	668.6	680.1	692.8	697.9
35°	648.2	650.7	663.5	678.8	686.5
37.5°	629.0	632.9	646.9	664.8	673.7
40°	609.9	613.7	629.0	650.7	660.9
42.5°	589.5	593.3	611.2	635.4	646.9
45°	567.8	572.9	593.3	617.5	632.9
47.5°	544.8	551.2	571.6	602.2	616.3
50°	520.6	525.7	549.9	583.1	601.0
52.5°	493.8	501.4	527.0	564.0	583.1
55°	468.3	474.6	502.7	539.7	561.4
57.5°	437.6	447.9	478.5	514.2	534.6
60°	407.0	418.5	449.1	484.9	504.0
62.5°	375.1	389.2	418.5	453.0	469.5
65°	340.7	357.3	386.6	416.0	428.7
67.5°	308.8	324.1	350.9	373.8	384.1
70°	273.0	289.6	311.3	330.5	340.7
72.5°	234.8	255.2	271.8	282.0	290.9
75°	197.8	218.2	232.2	232.2	236.0
77.5°	162.0	177.4	185.0	182.5	185.0
80°	121.2	136.5	135.2	130.1	127.6
82.5°	84.2	94.4	89.3	81.7	79.1
85°	49.8	56.1	48.5	42.1	42.1
87.5°	20.4	21.7	15.3	11.5	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)