

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: P189533

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34863)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WG-2L40-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND
RECTANGULAR PERF INLAY
LIGHT LEVEL 2 (506 mA)
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

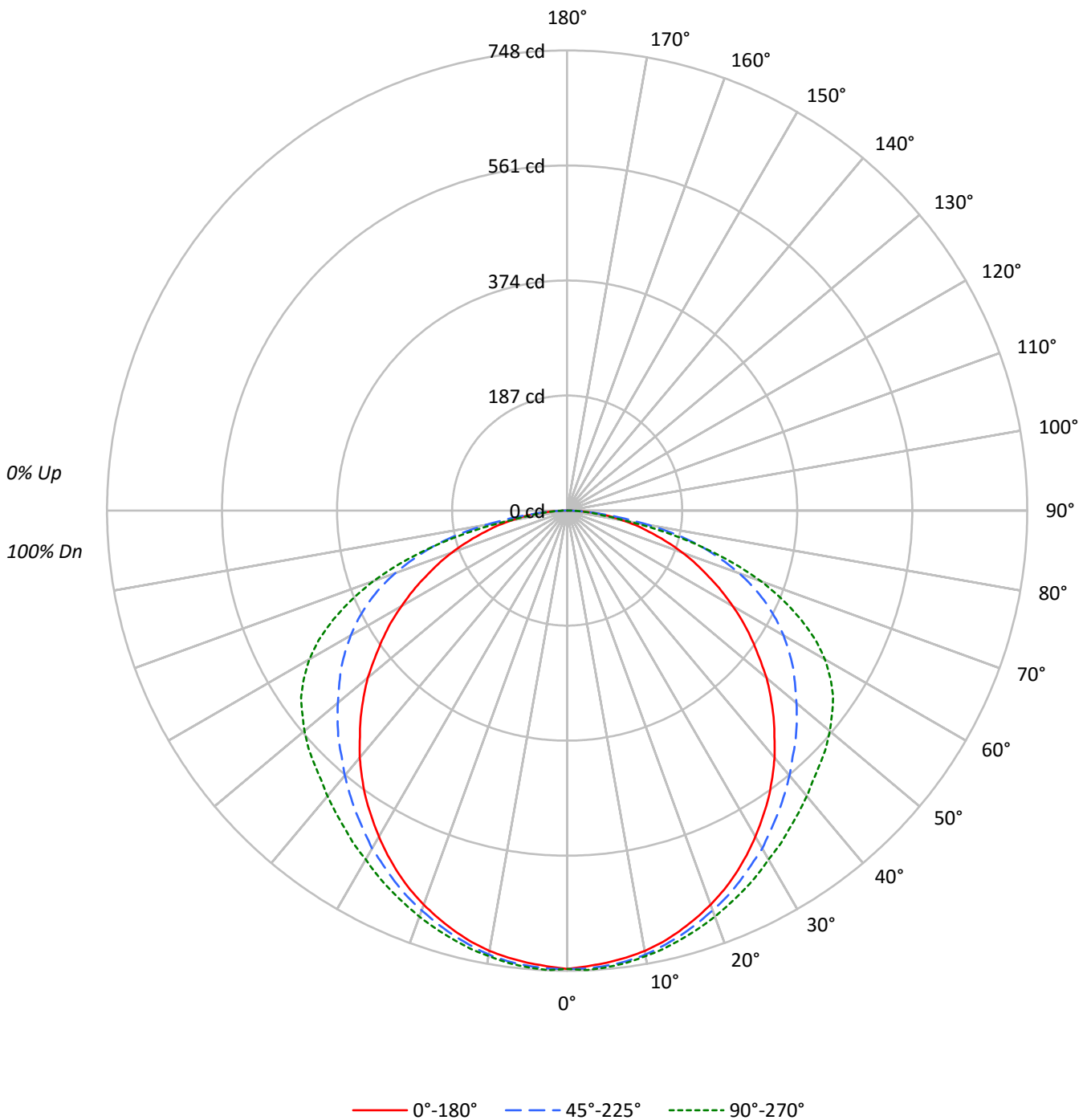
Lumens per Lamp: N/A
Luminaire Lumens: 2375.2 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

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	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	62	86	75	67	61	72	66	60	70	64	59	67	62	58	55
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°	2386	2386	2386
5°	2372	2387	2395
10°	2363	2383	2391
15°	2345	2369	2389
20°	2323	2356	2394
25°	2297	2348	2404
30°	2264	2345	2421
35°	2231	2341	2465
40°	2192	2350	2534
45°	2149	2380	2635
50°	2108	2424	2777
55°	2050	2506	2948
60°	1992	2601	3101
65°	1922	2708	3179
70°	1861	2786	3140
75°	1766	2806	2791
80°	1710	2473	1822
85°	1569	1749	1345



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	3.0
10°-20°	201.6	8.5
20°-30°	306.6	12.9
30°-40°	375.5	15.8
40°-50°	406.6	17.1
50°-60°	400.1	16.8
60°-70°	343.2	14.5
70°-80°	216.5	9.1
80°-90°	54.6	2.3
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°	578.7	24.4
0°-40°	954.2	40.2
0°-60°	1760.9	74.1
0°-90°	2375.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2375.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	745	745	745	745	745	
5°	738	740	743	744	745	70
15°	707	710	715	720	721	200
25°	650	654	665	676	680	299
35°	571	578	599	621	630	357
45°	474	489	526	563	582	366
55°	367	394	449	501	528	328
65°	254	298	357	401	420	252
75°	143	193	227	228	226	152
85°	43	58	48	38	37	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	745.1	745.1	745.1	745.1	745.1
2.5°	741.4	742.6	745.1	747.5	747.5
5°	737.8	740.2	742.6	743.9	745.1
7.5°	732.9	735.3	739.0	740.2	741.4
10°	726.8	728.0	732.9	735.3	735.3
12.5°	718.3	719.5	724.3	728.0	729.2
15°	707.3	709.7	714.6	719.5	720.7
17.5°	695.1	697.5	703.6	709.7	712.2
20°	681.7	684.1	691.4	698.7	702.4
22.5°	667.0	670.7	679.2	687.8	691.4
25°	650.0	653.6	664.6	675.6	680.4
27.5°	631.7	637.8	648.7	662.2	668.3
30°	612.2	618.3	634.1	648.7	654.8
32.5°	591.4	598.7	615.8	634.1	643.9
35°	570.7	578.0	598.7	620.7	630.5
37.5°	547.5	557.3	580.5	606.1	618.3
40°	524.4	535.3	562.2	591.4	606.1
42.5°	498.8	510.9	542.7	576.8	592.6
45°	474.4	489.0	525.6	563.4	581.7
47.5°	448.8	465.8	506.1	548.7	570.7
50°	423.1	441.4	486.6	534.1	557.3
52.5°	393.9	418.3	467.0	518.3	542.7
55°	367.1	393.9	448.8	501.2	528.0
57.5°	340.2	370.7	428.0	481.7	507.3
60°	311.0	346.3	406.1	458.5	484.1
62.5°	282.9	323.2	382.9	432.9	454.9
65°	253.6	297.5	357.3	401.2	419.5
67.5°	226.8	273.2	329.2	365.8	379.2
70°	198.8	248.8	297.5	324.4	335.3
72.5°	170.7	220.7	262.2	278.0	282.9
75°	142.7	192.7	226.8	228.0	225.6
77.5°	118.3	162.2	182.9	171.9	165.8
80°	92.7	130.5	134.1	112.2	98.8
82.5°	68.3	92.7	84.1	65.8	57.3
85°	42.7	58.5	47.6	37.8	36.6
87.5°	19.5	21.9	18.3	18.3	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)