

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: P189551

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189551
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-2L40-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY
LIGHT LEVEL 2 (506 mA)
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

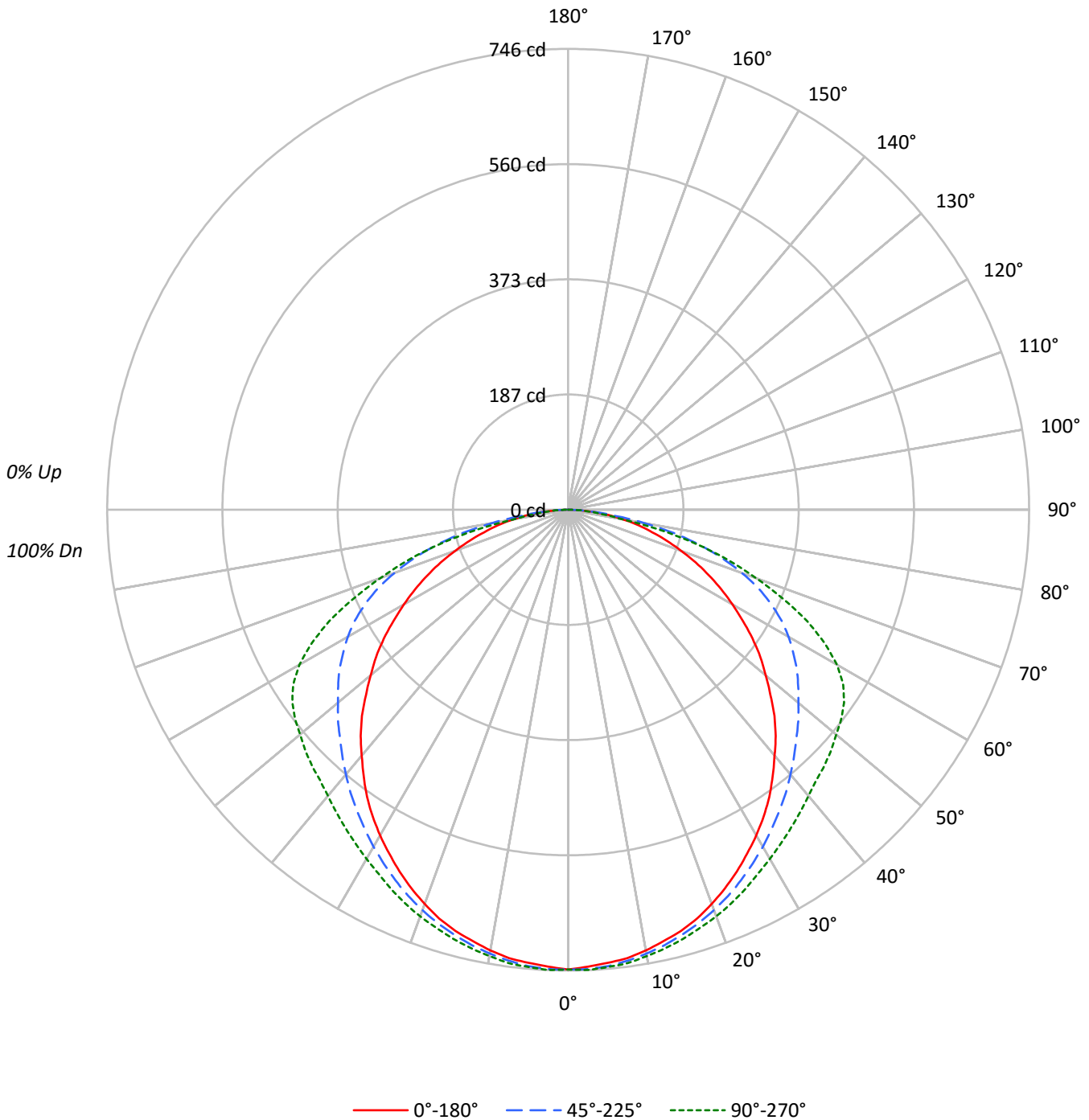
Lumens per Lamp: N/A
Luminaire Lumens: 2369.1 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
Input Voltage (V): NR
Input Current (A_{in}): 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°	2384	2384	2384
5°	2367	2384	2389
10°	2356	2373	2386
15°	2340	2362	2384
20°	2315	2351	2387
25°	2283	2339	2395
30°	2251	2330	2413
35°	2219	2328	2458
40°	2173	2339	2528
45°	2137	2366	2655
50°	2080	2424	2821
55°	2033	2523	3043
60°	1966	2639	3218
65°	1904	2750	3233
70°	1817	2801	3024
75°	1743	2730	2664
80°	1667	2329	1643
85°	1466	1562	1220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	3.0
10°-20°	201.1	8.5
20°-30°	305.1	12.9
30°-40°	373.7	15.8
40°-50°	406.0	17.1
50°-60°	404.3	17.1
60°-70°	346.4	14.6
70°-80°	211.7	8.9
80°-90°	50.4	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°	576.6	24.3
0°-40°	950.3	40.1
0°-60°	1760.5	74.3
0°-90°	2369.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2369.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	736	739	742	743	743	70
15°	706	707	712	718	719	199
25°	646	650	662	673	678	298
35°	568	574	596	618	629	355
45°	472	485	522	564	586	363
55°	364	392	452	513	545	325
65°	251	298	363	409	427	248
75°	141	194	221	221	215	150
85°	40	53	42	36	33	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	744.4	744.4	744.4	744.4	744.4
2.5°	740.4	741.7	744.4	745.7	745.7
5°	736.4	739.0	741.7	743.0	743.0
7.5°	732.4	733.7	736.4	739.0	740.4
10°	724.4	725.8	729.7	733.7	733.7
12.5°	715.1	717.8	721.8	725.8	727.1
15°	705.8	707.1	712.5	717.8	719.1
17.5°	693.9	695.2	701.8	708.5	709.8
20°	679.2	681.9	689.9	696.5	700.5
22.5°	663.3	665.9	676.6	685.9	689.9
25°	646.0	650.0	661.9	672.6	677.9
27.5°	627.4	632.7	646.0	659.3	664.6
30°	608.8	614.1	630.0	646.0	652.6
32.5°	588.8	595.5	612.8	631.4	640.7
35°	567.6	574.2	595.5	618.1	628.7
37.5°	543.6	554.3	578.2	604.8	616.8
40°	519.7	531.7	559.6	590.2	604.8
42.5°	497.1	509.1	541.0	576.9	594.2
45°	471.9	485.2	522.4	563.6	586.2
47.5°	444.0	462.6	505.1	551.6	576.9
50°	417.4	438.6	486.5	539.7	566.2
52.5°	392.1	416.0	469.2	527.7	556.9
55°	364.2	392.1	451.9	513.1	545.0
57.5°	335.0	368.2	432.0	495.8	527.7
60°	307.0	344.3	412.1	474.5	502.4
62.5°	279.1	323.0	389.5	446.6	467.9
65°	251.2	297.7	362.9	409.4	426.7
67.5°	223.3	275.1	333.6	366.9	376.2
70°	194.1	248.6	299.1	319.0	323.0
72.5°	167.5	222.0	261.9	271.2	272.5
75°	140.9	194.1	220.6	220.6	215.3
77.5°	117.0	162.2	175.5	164.8	155.5
80°	90.4	124.9	126.3	102.3	89.1
82.5°	65.1	89.1	78.4	61.1	54.5
85°	39.9	53.2	42.5	35.9	33.2
87.5°	14.6	17.3	14.6	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)