

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: P189503

Luminaire Tested: **BRG-WS-2L30-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189503
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-2L30-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 2 (506 mA)
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

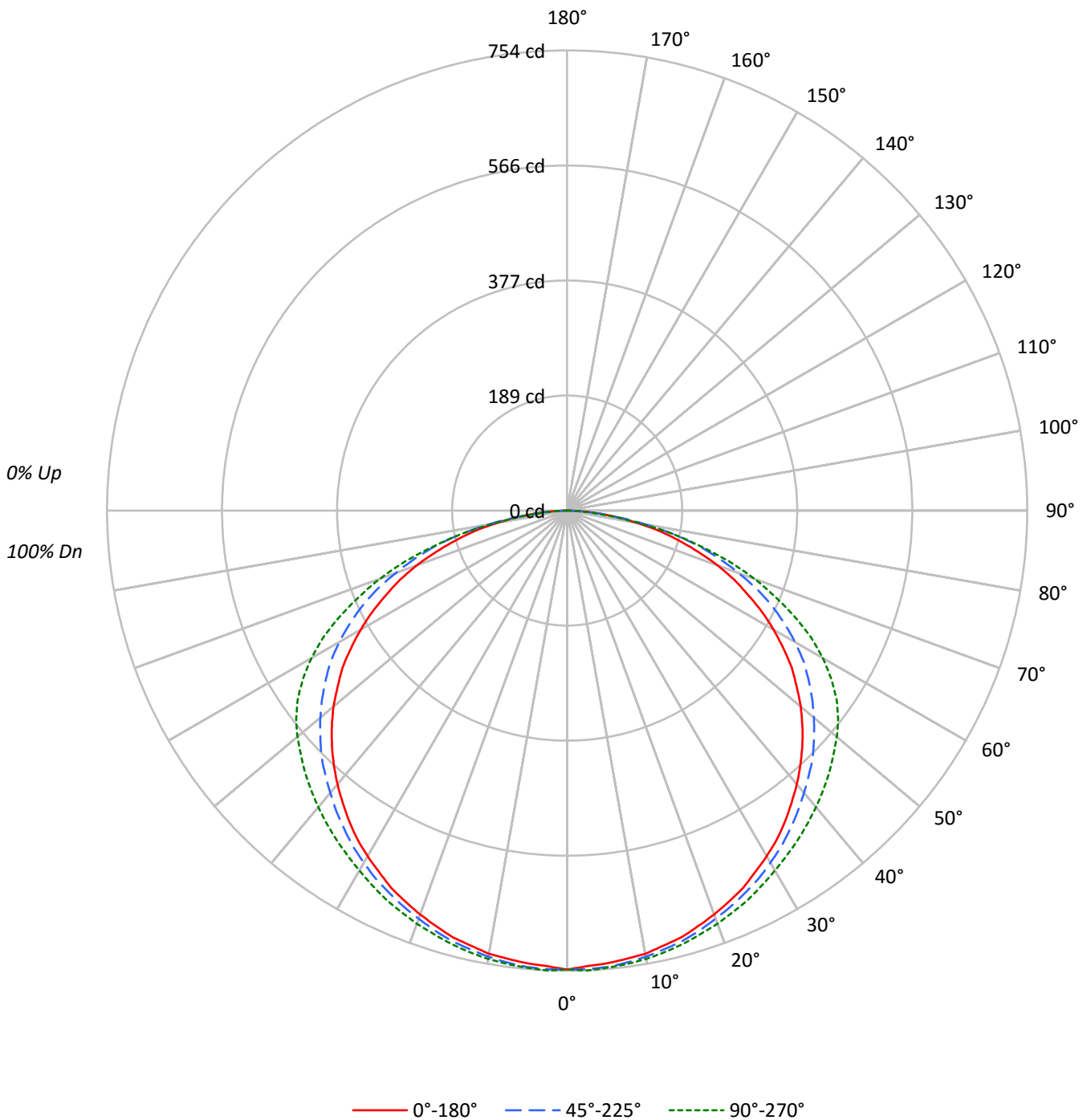
Lumens per Lamp: N/A
Luminaire Lumens: 2521.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.36 / 1.47
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

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	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°	2408	2408	2408
5°	2394	2414	2417
10°	2398	2414	2426
15°	2400	2420	2437
20°	2400	2425	2454
25°	2411	2441	2484
30°	2418	2464	2518
35°	2433	2490	2576
40°	2447	2524	2652
45°	2468	2579	2751
50°	2490	2630	2874
55°	2510	2695	3009
60°	2502	2761	3099
65°	2478	2812	3118
70°	2454	2798	3062
75°	2348	2758	2804
80°	2147	2394	2259
85°	1756	1709	1484



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	2.8
10°-20°	206.0	8.2
20°-30°	319.0	12.7
30°-40°	400.0	15.9
40°-50°	441.6	17.5
50°-60°	435.3	17.3
60°-70°	365.1	14.5
70°-80°	226.0	9.0
80°-90°	56.5	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°	596.4	23.7
0°-40°	996.4	39.5
0°-60°	1873.3	74.3
0°-90°	2521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2521.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	752	752	752	752	752	
5°	745	747	751	752	752	71
15°	724	725	730	734	735	204
25°	682	683	691	699	703	314
35°	622	625	637	652	659	389
45°	545	550	570	593	608	420
55°	450	456	483	518	539	400
65°	327	343	371	399	412	324
75°	190	209	223	223	227	200
85°	48	54	46	40	40	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	752.0	752.0	752.0	752.0	752.0
2.5°	747.1	749.6	752.0	754.4	754.4
5°	744.7	747.1	750.8	752.0	752.0
7.5°	741.0	743.4	747.1	748.3	749.6
10°	737.3	738.5	742.2	744.7	745.9
12.5°	730.0	732.4	736.1	739.8	741.0
15°	723.8	725.1	730.0	733.6	734.9
17.5°	714.0	716.5	721.4	726.3	727.5
20°	704.2	705.5	711.6	717.7	720.2
22.5°	693.2	695.7	701.8	709.1	711.6
25°	682.2	683.4	690.8	699.3	703.0
27.5°	667.5	671.2	679.7	687.1	692.0
30°	654.0	656.5	666.3	676.1	681.0
32.5°	639.3	641.8	652.8	665.0	669.9
35°	622.2	624.6	636.9	651.6	658.9
37.5°	603.8	607.5	621.0	638.1	646.7
40°	585.4	589.1	603.8	624.6	634.4
42.5°	565.8	569.5	586.7	609.9	621.0
45°	545.0	549.9	569.5	592.8	607.5
47.5°	523.0	529.1	548.7	578.1	591.6
50°	499.7	504.6	527.9	559.7	576.9
52.5°	474.0	481.3	505.8	541.3	559.7
55°	449.5	455.6	482.6	518.1	538.9
57.5°	420.1	429.9	459.3	493.6	513.2
60°	390.7	401.7	431.1	465.4	483.8
62.5°	360.1	373.6	401.7	434.8	450.7
65°	327.0	342.9	371.1	399.3	411.5
67.5°	296.4	311.1	336.8	358.9	368.7
70°	262.1	278.0	298.8	317.2	327.0
72.5°	225.4	245.0	260.9	270.7	279.2
75°	189.8	209.4	222.9	222.9	226.6
77.5°	155.5	170.2	177.6	175.1	177.6
80°	116.4	131.0	129.8	124.9	122.5
82.5°	80.8	90.6	85.7	78.4	75.9
85°	47.8	53.9	46.5	40.4	40.4
87.5°	19.6	20.8	14.7	11.0	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)