

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: P189521

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189521  
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-2L30-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) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

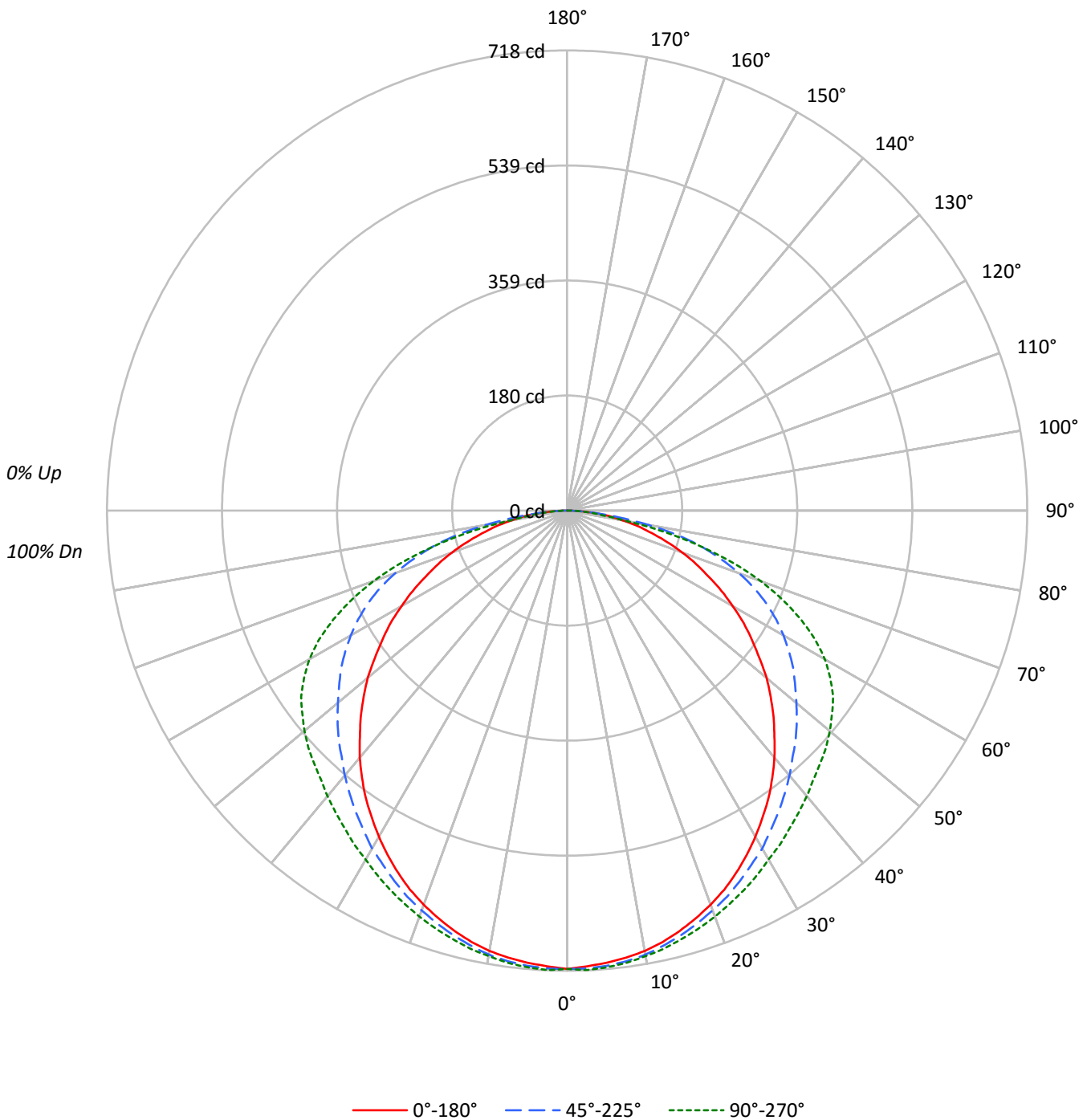
Lumens per Lamp: N/A  
Luminaire Lumens: 2279.9 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.32 / 1.42  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

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°	2290	2290	2290
5°	2277	2292	2299
10°	2269	2288	2295
15°	2251	2274	2294
20°	2230	2262	2298
25°	2205	2254	2308
30°	2173	2251	2325
35°	2142	2247	2366
40°	2104	2256	2432
45°	2062	2285	2529
50°	2024	2327	2665
55°	1967	2405	2830
60°	1912	2497	2976
65°	1845	2599	3052
70°	1787	2674	3014
75°	1695	2694	2679
80°	1641	2375	1748
85°	1507	1679	1290



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.7	3.0
10°-20°	193.6	8.5
20°-30°	294.3	12.9
30°-40°	360.4	15.8
40°-50°	390.3	17.1
50°-60°	384.0	16.8
60°-70°	329.5	14.5
70°-80°	207.8	9.1
80°-90°	52.4	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°	555.5	24.4
0°-40°	916.0	40.2
0°-60°	1690.2	74.1
0°-90°	2279.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2279.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	715	715	715	715	715	
5°	708	710	713	714	715	67
15°	679	681	686	691	692	192
25°	624	627	638	648	653	287
35°	548	555	575	596	605	342
45°	455	469	504	541	558	351
55°	352	378	431	481	507	315
65°	244	286	343	385	403	242
75°	137	185	218	219	216	146
85°	41	56	46	36	35	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	715.2	715.2	715.2	715.2	715.2
2.5°	711.7	712.9	715.2	717.5	717.5
5°	708.2	710.5	712.9	714.0	715.2
7.5°	703.5	705.8	709.3	710.5	711.7
10°	697.6	698.8	703.5	705.8	705.8
12.5°	689.4	690.6	695.3	698.8	700.0
15°	678.9	681.3	685.9	690.6	691.8
17.5°	667.2	669.5	675.4	681.3	683.6
20°	654.3	656.7	663.7	670.7	674.2
22.5°	640.3	643.8	652.0	660.2	663.7
25°	623.9	627.4	637.9	648.5	653.2
27.5°	606.3	612.2	622.7	635.6	641.5
30°	587.6	593.5	608.7	622.7	628.6
32.5°	567.7	574.7	591.1	608.7	618.0
35°	547.8	554.8	574.7	595.8	605.2
37.5°	525.6	534.9	557.2	581.8	593.5
40°	503.3	513.9	539.6	567.7	581.8
42.5°	478.7	490.5	520.9	553.7	568.9
45°	455.3	469.4	504.5	540.8	558.3
47.5°	430.8	447.1	485.8	526.7	547.8
50°	406.2	423.7	467.0	512.7	534.9
52.5°	378.1	401.5	448.3	497.5	520.9
55°	352.3	378.1	430.8	481.1	506.8
57.5°	326.6	355.8	410.9	462.4	486.9
60°	298.5	332.4	389.8	440.1	464.7
62.5°	271.6	310.2	367.5	415.5	436.6
65°	243.5	285.6	343.0	385.1	402.7
67.5°	217.7	262.2	316.0	351.2	364.0
70°	190.8	238.8	285.6	311.4	321.9
72.5°	163.9	211.9	251.7	266.9	271.6
75°	137.0	184.9	217.7	218.9	216.5
77.5°	113.5	155.7	175.6	165.0	159.2
80°	89.0	125.2	128.8	107.7	94.8
82.5°	65.6	89.0	80.8	63.2	55.0
85°	41.0	56.2	45.7	36.3	35.1
87.5°	18.7	21.1	17.6	17.6	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)