

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: P189558

Luminaire Tested: **BRG-WN-3L30-LD2-UNV-22-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189558  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34865)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: BRG-WN-3L30-LD2-UNV-22-STD  
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND NANO PRISM INLAY  
LIGHT LEVEL 3 (628 mA)  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

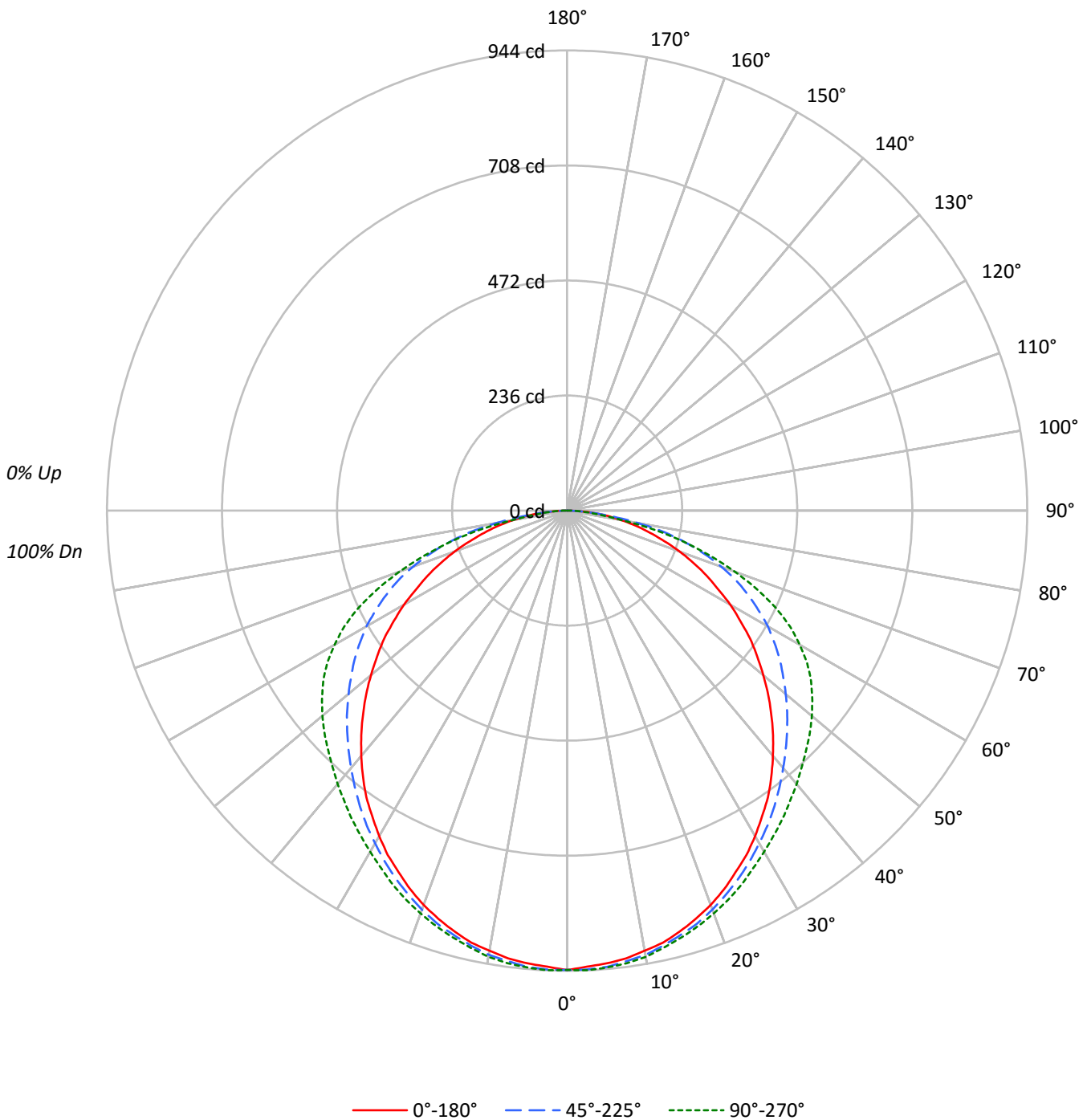
Lumens per Lamp: N/A  
Luminaire Lumens: 2867.5 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	99	94	105	101	97	93	96	93	90		93	90	87		89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	65	60		68	63	59	56
4	81	69	59	52	79	67	59	52	65	57	51		62	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38		50	43	38		49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34		46	39	34		44	38	33	31
8	59	45	36	31	57	45	36	30	43	36	30		42	35	30		41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27		39	32	27		38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	24		35	29	24	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3018	3018	3018
5°	2997	3020	3025
10°	2981	3009	3023
15°	2963	2987	3006
20°	2934	2968	2997
25°	2891	2941	2992
30°	2851	2914	2988
35°	2808	2897	3014
40°	2746	2883	3062
45°	2683	2890	3143
50°	2618	2917	3265
55°	2559	2974	3412
60°	2478	3045	3530
65°	2391	3105	3581
70°	2300	3155	3422
75°	2173	3092	3074
80°	2080	2713	2132
85°	1940	1940	1573



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.1	3.1
10°-20°	254.2	8.9
20°-30°	383.7	13.4
30°-40°	464.7	16.2
40°-50°	494.9	17.3
50°-60°	476.1	16.6
60°-70°	397.5	13.9
70°-80°	245.2	8.6
80°-90°	62.2	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°	727.0	25.4
0°-40°	1191.7	41.6
0°-60°	2162.7	75.4
0°-90°	2867.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2867.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	942	942	942	942	942	
5°	932	935	940	941	941	89
15°	894	897	901	905	907	252
25°	818	822	832	842	847	377
35°	718	724	741	761	771	448
45°	592	605	638	675	694	457
55°	458	481	533	585	611	409
65°	316	357	410	453	473	312
75°	176	223	250	251	248	187
85°	53	64	53	44	43	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	942.3	942.3	942.3	942.3	942.3
2.5°	936.6	938.0	942.3	943.8	943.8
5°	932.3	935.2	939.5	940.9	940.9
7.5°	926.6	928.0	932.3	935.2	936.6
10°	916.6	919.5	925.2	928.0	929.5
12.5°	908.1	908.1	913.8	918.1	918.1
15°	893.8	896.6	900.9	905.2	906.6
17.5°	878.1	880.9	888.1	892.4	893.8
20°	860.9	863.8	870.9	876.6	879.5
22.5°	841.0	843.8	852.4	860.9	863.8
25°	818.1	822.4	832.4	842.4	846.7
27.5°	796.7	799.5	811.0	822.4	826.7
30°	771.0	775.3	788.1	802.4	808.1
32.5°	743.9	751.0	765.3	782.4	789.6
35°	718.2	723.9	741.0	761.0	771.0
37.5°	688.2	695.3	715.3	739.6	751.0
40°	656.8	665.3	689.6	716.7	732.4
42.5°	625.4	636.8	663.9	696.7	712.5
45°	592.5	605.4	638.2	675.3	693.9
47.5°	559.7	575.4	612.5	653.9	675.3
50°	525.4	544.0	585.4	632.5	655.3
52.5°	491.2	512.6	558.3	608.2	633.9
55°	458.3	481.2	532.6	585.4	611.1
57.5°	421.2	448.3	504.0	556.8	584.0
60°	386.9	418.3	475.4	526.8	551.1
62.5°	348.4	388.4	442.6	494.0	515.4
65°	315.5	356.9	409.8	452.6	472.6
67.5°	279.8	324.1	375.5	409.8	421.2
70°	245.6	291.3	337.0	359.8	365.5
72.5°	209.9	258.4	295.5	308.4	307.0
75°	175.6	222.7	249.9	251.3	248.4
77.5°	144.2	185.6	204.2	192.7	187.0
80°	112.8	145.6	147.1	128.5	115.6
82.5°	82.8	105.7	94.2	77.1	70.0
85°	52.8	64.2	52.8	44.3	42.8
87.5°	22.8	25.7	20.0	18.6	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)