

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: P189559

Luminaire Tested: **BRG-WN-4L30-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189559
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-4L30-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND NANO PRISM INLAY
LIGHT LEVEL 4 (735 mA)
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

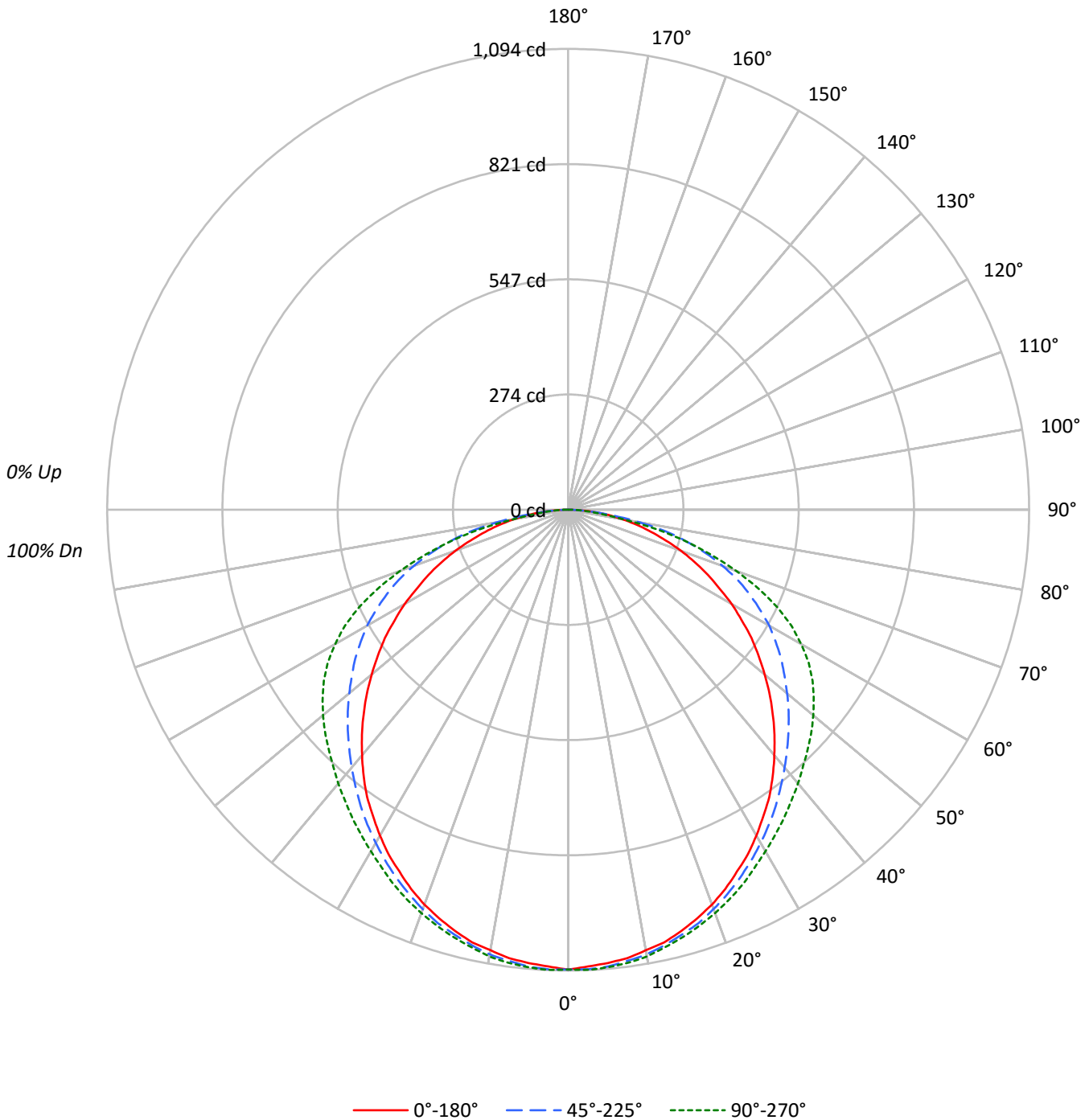
Lumens per Lamp: N/A
Luminaire Lumens: 3322.4 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 33.8
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	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°	3496	3496	3496
5°	3473	3499	3505
10°	3454	3486	3502
15°	3434	3461	3483
20°	3400	3439	3473
25°	3349	3408	3466
30°	3303	3377	3462
35°	3253	3357	3492
40°	3181	3340	3548
45°	3109	3349	3641
50°	3033	3379	3783
55°	2965	3445	3953
60°	2871	3529	4090
65°	2770	3598	4150
70°	2664	3656	3965
75°	2518	3582	3561
80°	2410	3143	2471
85°	2249	2249	1823



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	3.1
10°-20°	294.5	8.9
20°-30°	444.6	13.4
30°-40°	538.4	16.2
40°-50°	573.4	17.3
50°-60°	551.6	16.6
60°-70°	460.5	13.9
70°-80°	284.1	8.6
80°-90°	72.0	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
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0°-30°	842.3	25.4
0°-40°	1380.8	41.6
0°-60°	2505.8	75.4
0°-90°	3322.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3322.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1092	1092	1092	1092	1092	
5°	1080	1084	1088	1090	1090	103
15°	1036	1039	1044	1049	1050	292
25°	948	953	964	976	981	437
35°	832	839	859	882	893	520
45°	686	701	740	782	804	530
55°	531	558	617	678	708	473
65°	366	414	475	524	548	361
75°	204	258	290	291	288	217
85°	61	74	61	51	50	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1091.8	1091.8	1091.8	1091.8	1091.8
2.5°	1085.2	1086.9	1091.8	1093.5	1093.5
5°	1080.2	1083.5	1088.5	1090.2	1090.2
7.5°	1073.6	1075.3	1080.2	1083.5	1085.2
10°	1062.0	1065.4	1072.0	1075.3	1076.9
12.5°	1052.1	1052.1	1058.7	1063.7	1063.7
15°	1035.6	1038.9	1043.8	1048.8	1050.5
17.5°	1017.4	1020.7	1029.0	1033.9	1035.6
20°	997.5	1000.8	1009.1	1015.7	1019.0
22.5°	974.4	977.7	987.6	997.5	1000.8
25°	947.9	952.9	964.4	976.0	981.0
27.5°	923.1	926.4	939.6	952.9	957.8
30°	893.3	898.3	913.2	929.7	936.3
32.5°	861.9	870.1	886.7	906.5	914.8
35°	832.1	838.7	858.6	881.7	893.3
37.5°	797.4	805.6	828.8	856.9	870.1
40°	761.0	770.9	799.0	830.4	848.6
42.5°	724.6	737.8	769.2	807.3	825.5
45°	686.5	701.4	739.5	782.5	804.0
47.5°	648.5	666.7	709.7	757.7	782.5
50°	608.8	630.3	678.3	732.8	759.3
52.5°	569.1	593.9	646.8	704.7	734.5
55°	531.0	557.5	617.0	678.3	708.0
57.5°	488.0	519.4	584.0	645.2	676.6
60°	448.3	484.7	550.9	610.4	638.5
62.5°	403.6	450.0	512.8	572.4	597.2
65°	365.6	413.6	474.8	524.4	547.6
67.5°	324.2	375.5	435.1	474.8	488.0
70°	284.5	337.5	390.4	416.9	423.5
72.5°	243.2	299.4	342.4	357.3	355.7
75°	203.5	258.1	289.5	291.2	287.8
77.5°	167.1	215.1	236.6	223.3	216.7
80°	130.7	168.7	170.4	148.9	134.0
82.5°	95.9	122.4	109.2	89.3	81.1
85°	61.2	74.4	61.2	51.3	49.6
87.5°	26.5	29.8	23.2	21.5	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)