

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: P189505

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189505
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-4L30-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 4 (735 mA)
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

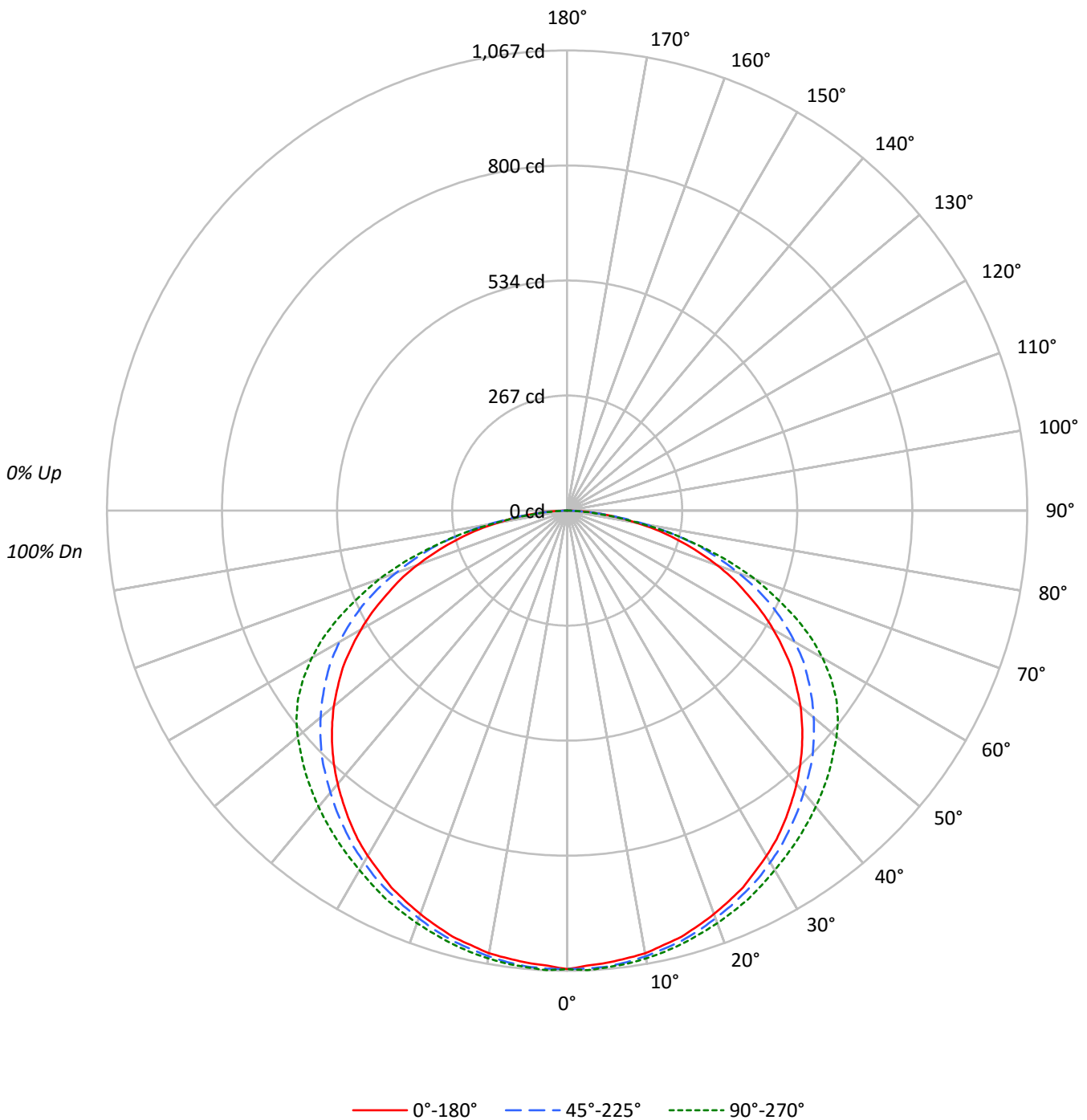
Lumens per Lamp: N/A
Luminaire Lumens: 3564.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.36 / 1.47
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3405	3405	3405
5°	3384	3412	3418
10°	3389	3412	3429
15°	3393	3422	3444
20°	3393	3428	3470
25°	3408	3451	3512
30°	3419	3483	3560
35°	3439	3520	3642
40°	3460	3569	3750
45°	3490	3646	3890
50°	3519	3718	4063
55°	3548	3809	4253
60°	3537	3904	4380
65°	3503	3975	4409
70°	3469	3956	4329
75°	3321	3899	3963
80°	3034	3384	3192
85°	2480	2418	2098



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	2.8
10°-20°	291.3	8.2
20°-30°	451.0	12.7
30°-40°	565.5	15.9
40°-50°	624.3	17.5
50°-60°	615.4	17.3
60°-70°	516.2	14.5
70°-80°	319.6	9.0
80°-90°	80.0	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
0°-30°	843.1	23.7
0°-40°	1408.6	39.5
0°-60°	2648.3	74.3
0°-90°	3564.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3564.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1063	1063	1063	1063	1063	
5°	1053	1056	1061	1063	1063	100
15°	1023	1025	1032	1037	1039	289
25°	964	966	976	989	994	444
35°	880	883	900	921	932	551
45°	770	777	805	838	859	594
55°	635	644	682	732	762	566
65°	462	485	525	564	582	458
75°	268	296	315	315	320	283
85°	68	76	66	57	57	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1063.1	1063.1	1063.1	1063.1	1063.1
2.5°	1056.2	1059.7	1063.1	1066.6	1066.6
5°	1052.7	1056.2	1061.4	1063.1	1063.1
7.5°	1047.5	1051.0	1056.2	1057.9	1059.7
10°	1042.3	1044.1	1049.3	1052.7	1054.5
12.5°	1032.0	1035.4	1040.6	1045.8	1047.5
15°	1023.3	1025.0	1032.0	1037.1	1038.9
17.5°	1009.4	1012.9	1019.8	1026.8	1028.5
20°	995.6	997.3	1006.0	1014.6	1018.1
22.5°	980.0	983.5	992.1	1002.5	1006.0
25°	964.4	966.2	976.5	988.7	993.9
27.5°	943.6	948.8	961.0	971.4	978.3
30°	924.6	928.1	941.9	955.8	962.7
32.5°	903.8	907.3	922.9	940.2	947.1
35°	879.6	883.0	900.4	921.1	931.5
37.5°	853.6	858.8	877.9	902.1	914.2
40°	827.6	832.8	853.6	883.0	896.9
42.5°	799.9	805.1	829.4	862.3	877.9
45°	770.5	777.4	805.1	838.0	858.8
47.5°	739.3	748.0	775.7	817.3	836.3
50°	706.4	713.4	746.3	791.3	815.5
52.5°	670.1	680.5	715.1	765.3	791.3
55°	635.4	644.1	682.2	732.4	761.8
57.5°	593.9	607.7	649.3	697.8	725.5
60°	552.3	567.9	609.5	658.0	683.9
62.5°	509.1	528.1	567.9	614.7	637.2
65°	462.3	484.8	524.6	564.5	581.8
67.5°	419.0	439.8	476.2	507.3	521.2
70°	370.5	393.0	422.5	448.5	462.3
72.5°	318.6	346.3	368.8	382.7	394.8
75°	268.4	296.1	315.1	315.1	320.3
77.5°	219.9	240.7	251.1	247.6	251.1
80°	164.5	185.3	183.5	176.6	173.1
82.5°	114.3	128.1	121.2	110.8	107.4
85°	67.5	76.2	65.8	57.1	57.1
87.5°	27.7	29.4	20.8	15.6	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)