

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: P189523

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189523
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-4L30-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND
RECTANGULAR PERF INLAY
LIGHT LEVEL 4 (735 mA)
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

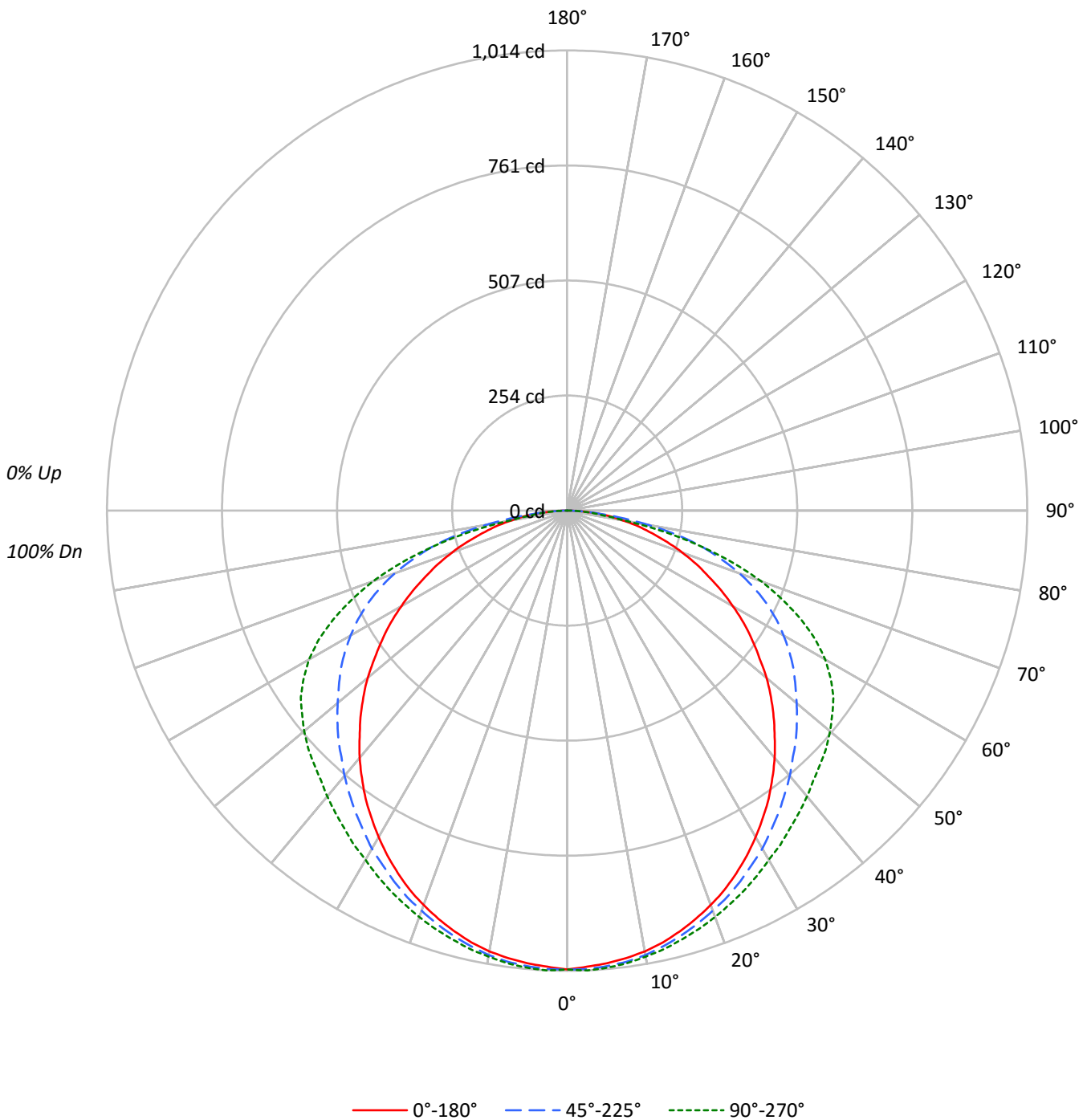
Lumens per Lamp: N/A
Luminaire Lumens: 3223.2 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3238	3238	3238
5°	3219	3240	3250
10°	3207	3234	3245
15°	3182	3215	3243
20°	3152	3198	3249
25°	3117	3187	3263
30°	3072	3182	3286
35°	3028	3176	3345
40°	2975	3189	3438
45°	2915	3230	3575
50°	2861	3290	3768
55°	2781	3400	4000
60°	2703	3530	4208
65°	2608	3674	4314
70°	2525	3781	4261
75°	2396	3809	3788
80°	2320	3357	2471
85°	2128	2370	1823



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	3.0
10°-20°	273.6	8.5
20°-30°	416.0	12.9
30°-40°	509.6	15.8
40°-50°	551.7	17.1
50°-60°	542.9	16.8
60°-70°	465.8	14.5
70°-80°	293.8	9.1
80°-90°	74.1	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°	785.4	24.4
0°-40°	1294.9	40.2
0°-60°	2389.5	74.1
0°-90°	3223.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3223.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1011	1011	1011	1011	1011	
5°	1001	1004	1008	1009	1011	95
15°	960	963	970	976	978	271
25°	882	887	902	917	923	406
35°	774	784	812	842	856	484
45°	644	664	713	764	789	497
55°	498	534	609	680	716	446
65°	344	404	485	544	569	342
75°	194	262	308	310	306	207
85°	58	79	64	51	50	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1011.1	1011.1	1011.1	1011.1	1011.1
2.5°	1006.1	1007.8	1011.1	1014.4	1014.4
5°	1001.2	1004.5	1007.8	1009.4	1011.1
7.5°	994.5	997.9	1002.8	1004.5	1006.1
10°	986.3	987.9	994.5	997.9	997.9
12.5°	974.7	976.3	983.0	987.9	989.6
15°	959.8	963.1	969.7	976.3	978.0
17.5°	943.2	946.6	954.8	963.1	966.4
20°	925.0	928.4	938.3	948.2	953.2
22.5°	905.2	910.1	921.7	933.3	938.3
25°	882.0	887.0	901.9	916.8	923.4
27.5°	857.2	865.5	880.4	898.6	906.8
30°	830.7	839.0	860.5	880.4	888.6
32.5°	802.6	812.5	835.7	860.5	873.7
35°	774.5	784.4	812.5	842.3	855.5
37.5°	743.0	756.3	787.7	822.4	839.0
40°	711.6	726.5	762.9	802.6	822.4
42.5°	676.8	693.4	736.4	782.7	804.2
45°	643.7	663.6	713.2	764.5	789.3
47.5°	609.0	632.1	686.7	744.7	774.5
50°	574.2	599.0	660.3	724.8	756.3
52.5°	534.5	567.6	633.8	703.3	736.4
55°	498.1	534.5	609.0	680.1	716.5
57.5°	461.7	503.1	580.8	653.7	688.4
60°	422.0	470.0	551.1	622.2	657.0
62.5°	383.9	438.5	519.6	587.5	617.2
65°	344.2	403.8	484.9	544.4	569.3
67.5°	307.8	370.7	446.8	496.4	514.6
70°	269.7	337.6	403.8	440.2	455.1
72.5°	231.7	299.5	355.8	377.3	383.9
75°	193.6	261.5	307.8	309.5	306.1
77.5°	160.5	220.1	248.2	233.3	225.1
80°	125.8	177.1	182.0	152.2	134.0
82.5°	92.7	125.8	114.2	89.4	77.8
85°	57.9	79.4	64.5	51.3	49.6
87.5°	26.5	29.8	24.8	24.8	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)