

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: P189547

Luminaire Tested: **BRG-WD-4L35-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34970)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WD-4L35-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY
LIGHT LEVEL 4 (735 mA)
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3280.5 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

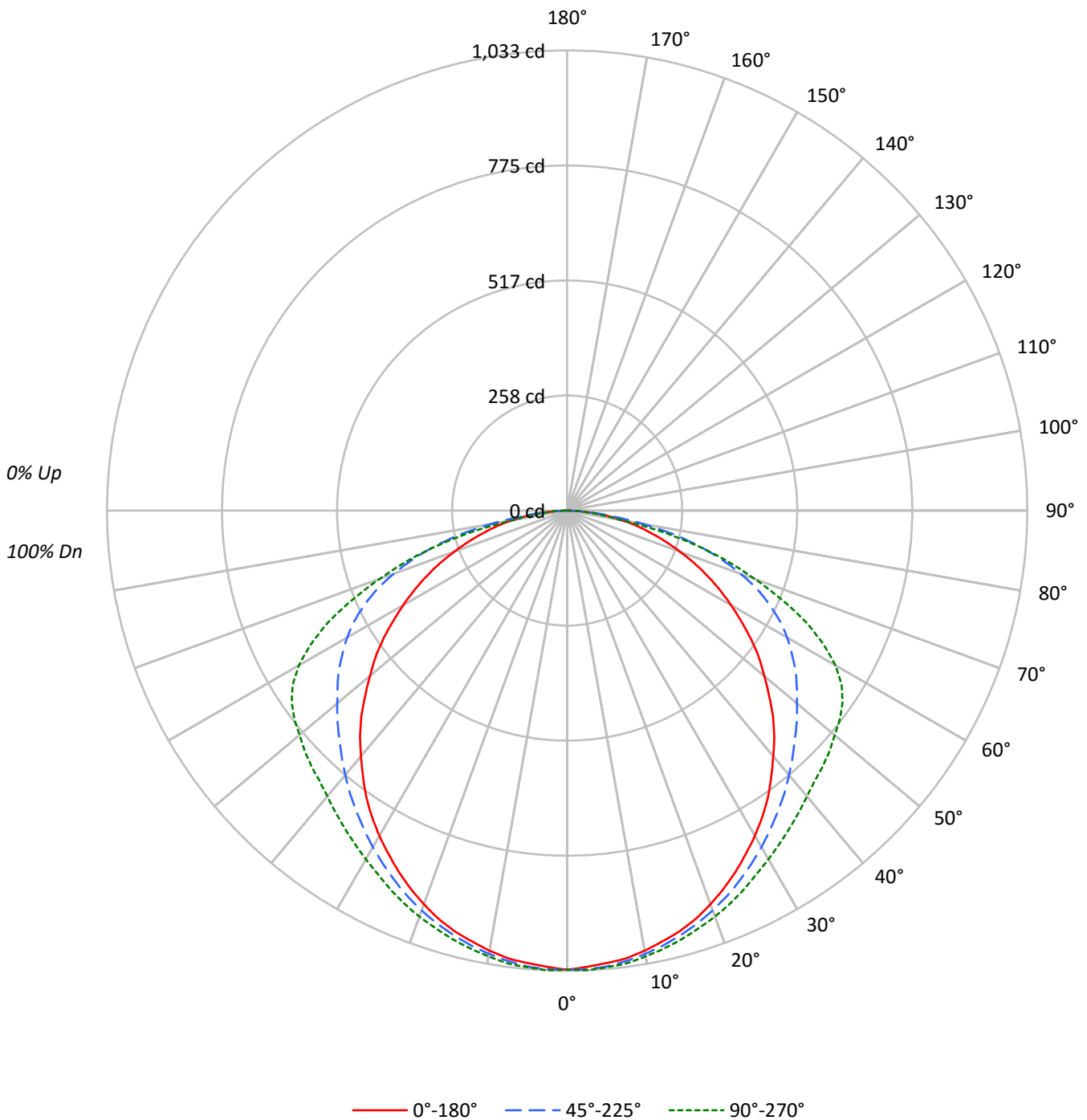
Input Watts (W): 33.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	96	93	96	93	90	92	89	87	89	86	84	82
2	97	89	81	75	95	87	80	74	83	77	73	80	75	71	77	73	69	67
3	88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
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°	3301	3301	3301
5°	3278	3302	3308
10°	3262	3286	3304
15°	3241	3271	3302
20°	3206	3256	3306
25°	3161	3239	3317
30°	3117	3226	3342
35°	3072	3224	3404
40°	3009	3240	3501
45°	2959	3276	3676
50°	2880	3357	3907
55°	2816	3494	4214
60°	2723	3655	4457
65°	2636	3808	4477
70°	2516	3877	4188
75°	2414	3780	3690
80°	2309	3226	2274
85°	2028	2164	1690



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	3.0
10°-20°	278.4	8.5
20°-30°	422.5	12.9
30°-40°	517.5	15.8
40°-50°	562.1	17.1
50°-60°	559.9	17.1
60°-70°	479.7	14.6
70°-80°	293.1	8.9
80°-90°	69.8	2.1
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°	798.4	24.3
0°-40°	1315.9	40.1
0°-60°	2437.9	74.3
0°-90°	3280.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3280.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1031	1031	1031	1031	1031	
5°	1020	1023	1027	1029	1029	97
15°	977	979	987	994	996	276
25°	894	900	917	931	939	412
35°	786	795	825	856	871	491
45°	653	672	723	780	812	503
55°	504	543	626	710	755	450
65°	348	412	502	567	591	344
75°	195	269	306	306	298	207
85°	55	74	59	50	46	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1030.7	1030.7	1030.7	1030.7	1030.7
2.5°	1025.2	1027.1	1030.7	1032.6	1032.6
5°	1019.7	1023.4	1027.1	1028.9	1028.9
7.5°	1014.2	1016.0	1019.7	1023.4	1025.2
10°	1003.1	1005.0	1010.5	1016.0	1016.0
12.5°	990.3	993.9	999.5	1005.0	1006.8
15°	977.4	979.2	986.6	993.9	995.8
17.5°	960.8	962.6	971.8	981.1	982.9
20°	940.6	944.2	955.3	964.5	970.0
22.5°	918.5	922.2	936.9	949.8	955.3
25°	894.5	900.1	916.6	931.4	938.7
27.5°	868.8	876.1	894.5	912.9	920.3
30°	843.0	850.4	872.5	894.5	903.7
32.5°	815.4	824.6	848.5	874.3	887.2
35°	785.9	795.1	824.6	855.9	870.6
37.5°	752.8	767.5	800.7	837.5	854.0
40°	719.7	736.2	774.9	817.2	837.5
42.5°	688.4	705.0	749.1	798.8	822.8
45°	653.4	671.8	723.4	780.4	811.7
47.5°	614.8	640.5	699.4	763.9	798.8
50°	578.0	607.4	673.7	747.3	784.1
52.5°	543.0	576.1	649.7	730.7	771.2
55°	504.3	543.0	625.8	710.5	754.7
57.5°	463.8	509.9	598.2	686.6	730.7
60°	425.2	476.7	570.6	657.1	695.8
62.5°	386.5	447.3	539.3	618.4	647.9
65°	347.9	412.3	502.5	566.9	590.8
67.5°	309.2	381.0	462.0	508.0	520.9
70°	268.7	344.2	414.1	441.7	447.3
72.5°	231.9	307.4	362.6	375.5	377.3
75°	195.1	268.7	305.5	305.5	298.2
77.5°	162.0	224.6	243.0	228.2	215.4
80°	125.2	173.0	174.9	141.7	123.3
82.5°	90.2	123.3	108.6	84.7	75.5
85°	55.2	73.6	58.9	49.7	46.0
87.5°	20.2	23.9	20.2	22.1	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)