

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: P189529

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189529
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-4L35-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) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

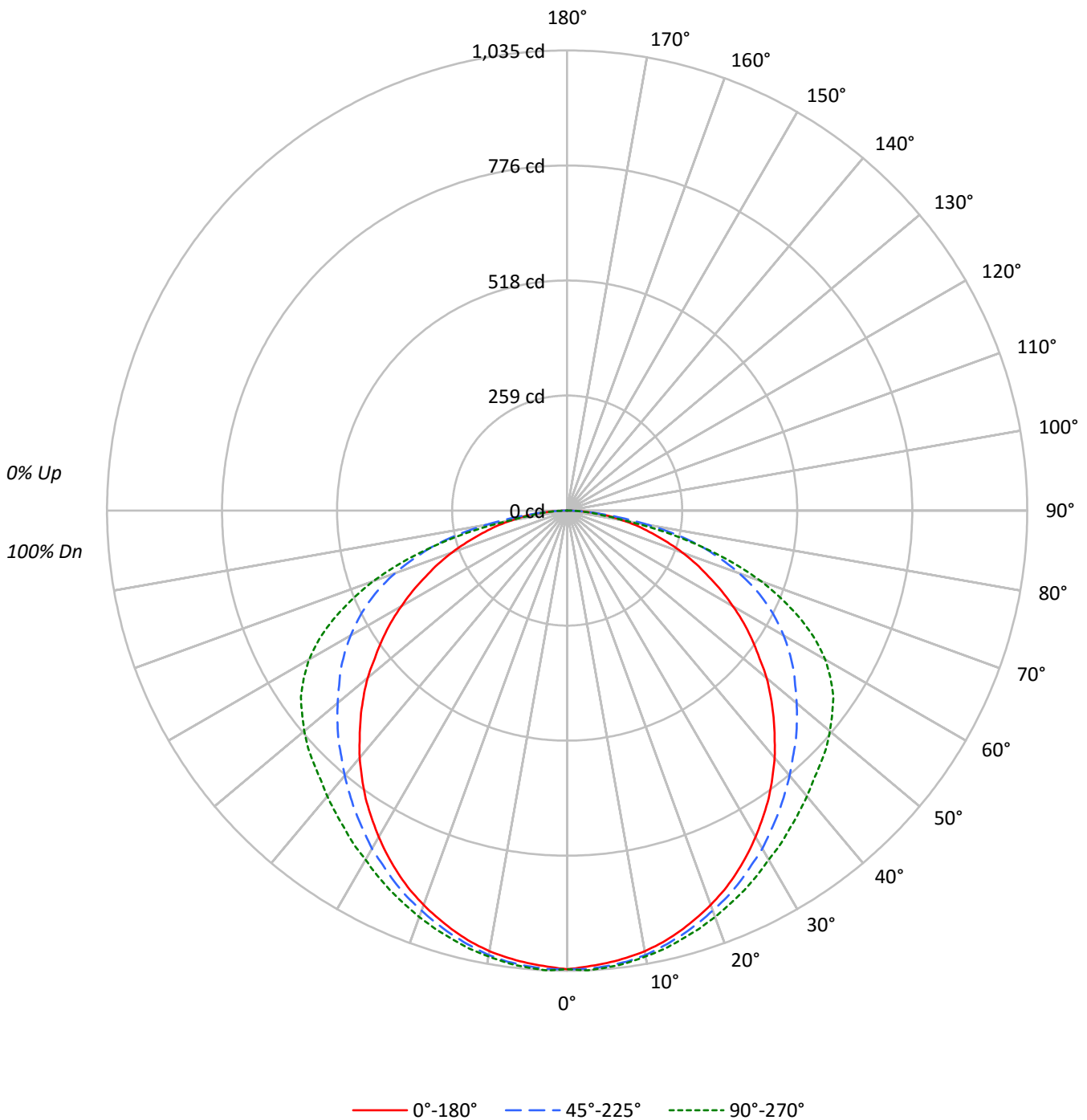
Lumens per Lamp: N/A
Luminaire Lumens: 3289.0 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 33.8
Input Voltage (V): NR
Input Current (A_{in}): 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°	3304	3304	3304
5°	3284	3306	3317
10°	3273	3300	3311
15°	3247	3281	3309
20°	3217	3263	3315
25°	3180	3252	3329
30°	3135	3247	3353
35°	3090	3241	3413
40°	3036	3255	3508
45°	2975	3296	3648
50°	2920	3357	3845
55°	2838	3470	4083
60°	2758	3602	4294
65°	2661	3749	4402
70°	2577	3858	4348
75°	2445	3887	3865
80°	2366	3425	2523
85°	2172	2421	1863



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	3.0
10°-20°	279.2	8.5
20°-30°	424.5	12.9
30°-40°	520.0	15.8
40°-50°	563.0	17.1
50°-60°	554.0	16.8
60°-70°	475.3	14.5
70°-80°	299.8	9.1
80°-90°	75.6	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°	801.4	24.4
0°-40°	1321.4	40.2
0°-60°	2438.3	74.1
0°-90°	3289.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3289.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1032	1032	1032	1032	1032	
5°	1022	1025	1028	1030	1032	97
15°	979	983	990	996	998	276
25°	900	905	920	936	942	415
35°	790	800	829	860	873	494
45°	657	677	728	780	806	507
55°	508	545	621	694	731	455
65°	351	412	495	556	581	349
75°	198	267	314	316	312	211
85°	59	81	66	52	51	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1031.7	1031.7	1031.7	1031.7	1031.7
2.5°	1026.7	1028.4	1031.7	1035.1	1035.1
5°	1021.6	1025.0	1028.4	1030.1	1031.7
7.5°	1014.9	1018.2	1023.3	1025.0	1026.7
10°	1006.4	1008.1	1014.9	1018.2	1018.2
12.5°	994.6	996.3	1003.0	1008.1	1009.8
15°	979.4	982.8	989.5	996.3	998.0
17.5°	962.5	965.9	974.3	982.8	986.2
20°	943.9	947.3	957.4	967.6	972.6
22.5°	923.7	928.7	940.6	952.4	957.4
25°	900.0	905.1	920.3	935.5	942.2
27.5°	874.7	883.1	898.3	916.9	925.4
30°	847.7	856.1	878.1	898.3	906.8
32.5°	819.0	829.1	852.8	878.1	891.6
35°	790.3	800.4	829.1	859.5	873.0
37.5°	758.2	771.7	803.8	839.2	856.1
40°	726.1	741.3	778.5	819.0	839.2
42.5°	690.6	707.5	751.4	798.7	820.7
45°	656.9	677.1	727.8	780.1	805.5
47.5°	621.4	645.1	700.8	759.9	790.3
50°	586.0	611.3	673.8	739.6	771.7
52.5°	545.4	579.2	646.7	717.7	751.4
55°	508.3	545.4	621.4	694.0	731.2
57.5°	471.1	513.3	592.7	667.0	702.5
60°	430.6	479.6	562.3	634.9	670.4
62.5°	391.8	447.5	530.2	599.5	629.9
65°	351.2	412.0	494.8	555.6	580.9
67.5°	314.1	378.3	455.9	506.6	525.2
70°	275.2	344.5	412.0	449.2	464.4
72.5°	236.4	305.6	363.1	385.0	391.8
75°	197.6	266.8	314.1	315.8	312.4
77.5°	163.8	224.6	253.3	238.1	229.7
80°	128.3	180.7	185.7	155.4	136.8
82.5°	94.6	128.3	116.5	91.2	79.4
85°	59.1	81.1	65.9	52.3	50.7
87.5°	27.0	30.4	25.3	25.3	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)