

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: P189565

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189565
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-4L35-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) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

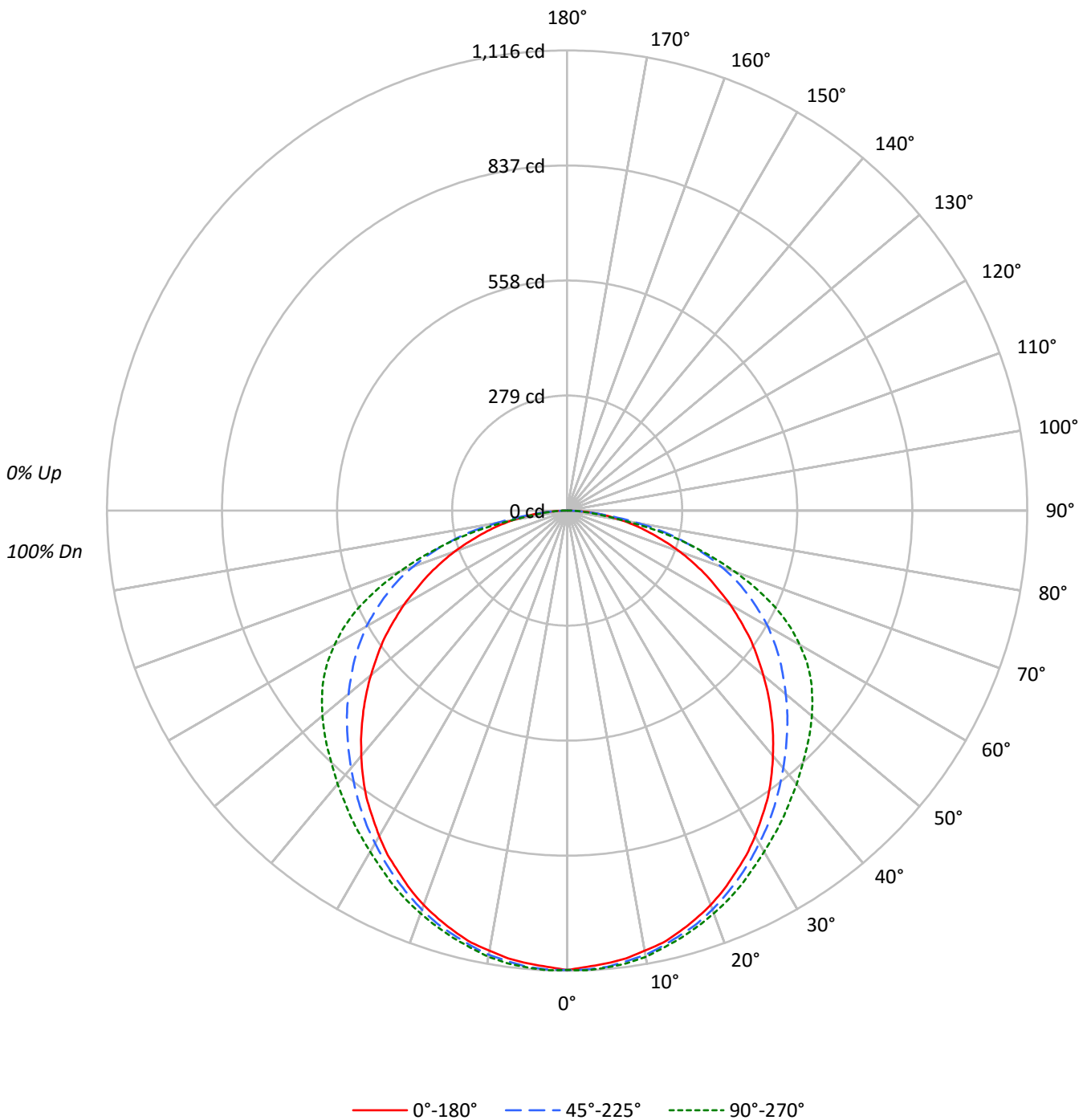
Lumens per Lamp: N/A
Luminaire Lumens: 3390.3 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3568	3568	3568
5°	3544	3571	3576
10°	3524	3557	3574
15°	3503	3532	3554
20°	3469	3509	3544
25°	3418	3477	3537
30°	3371	3446	3533
35°	3320	3425	3564
40°	3246	3408	3620
45°	3173	3418	3716
50°	3095	3448	3860
55°	3026	3515	4034
60°	2930	3600	4173
65°	2827	3671	4234
70°	2718	3730	4046
75°	2569	3655	3634
80°	2460	3207	2521
85°	2297	2297	1859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	3.1
10°-20°	300.6	8.9
20°-30°	453.7	13.4
30°-40°	549.4	16.2
40°-50°	585.1	17.3
50°-60°	562.9	16.6
60°-70°	469.9	13.9
70°-80°	289.9	8.6
80°-90°	73.5	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°	859.5	25.4
0°-40°	1409.0	41.6
0°-60°	2557.0	75.4
0°-90°	3390.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3390.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1114	1114	1114	1114	1114	
5°	1102	1106	1111	1112	1112	105
15°	1057	1060	1065	1070	1072	298
25°	967	972	984	996	1001	446
35°	849	856	876	900	912	530
45°	700	716	755	798	820	541
55°	542	569	630	692	722	483
65°	373	422	484	535	559	369
75°	208	263	295	297	294	221
85°	62	76	62	52	51	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1114.1	1114.1	1114.1	1114.1	1114.1
2.5°	1107.4	1109.1	1114.1	1115.8	1115.8
5°	1102.3	1105.7	1110.7	1112.4	1112.4
7.5°	1095.6	1097.2	1102.3	1105.7	1107.4
10°	1083.7	1087.1	1093.9	1097.2	1098.9
12.5°	1073.6	1073.6	1080.4	1085.4	1085.4
15°	1056.7	1060.1	1065.2	1070.2	1071.9
17.5°	1038.2	1041.5	1050.0	1055.0	1056.7
20°	1017.9	1021.3	1029.7	1036.5	1039.8
22.5°	994.3	997.6	1007.8	1017.9	1021.3
25°	967.3	972.3	984.1	996.0	1001.0
27.5°	941.9	945.3	958.8	972.3	977.4
30°	911.6	916.6	931.8	948.7	955.4
32.5°	879.5	887.9	904.8	925.1	933.5
35°	849.1	855.8	876.1	899.7	911.6
37.5°	813.6	822.1	845.7	874.4	887.9
40°	776.5	786.6	815.3	847.4	866.0
42.5°	739.4	752.9	785.0	823.8	842.3
45°	700.5	715.7	754.6	798.5	820.4
47.5°	661.7	680.3	724.2	773.1	798.5
50°	621.2	643.2	692.1	747.8	774.8
52.5°	580.7	606.0	660.0	719.1	749.5
55°	541.9	568.9	629.6	692.1	722.5
57.5°	498.0	530.1	595.9	658.3	690.4
60°	457.5	494.6	562.1	622.9	651.6
62.5°	411.9	459.2	523.3	584.1	609.4
65°	373.1	422.0	484.5	535.1	558.7
67.5°	330.9	383.2	444.0	484.5	498.0
70°	290.3	344.4	398.4	425.4	432.1
72.5°	248.1	305.5	349.4	364.6	362.9
75°	207.6	263.3	295.4	297.1	293.7
77.5°	170.5	219.4	241.4	227.9	221.1
80°	133.4	172.2	173.9	151.9	136.7
82.5°	97.9	124.9	111.4	91.2	82.7
85°	62.5	76.0	62.5	52.3	50.6
87.5°	27.0	30.4	23.6	21.9	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)