

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: P189571

Luminaire Tested: **BRG-WN-4L40-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189571
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-4L40-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) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

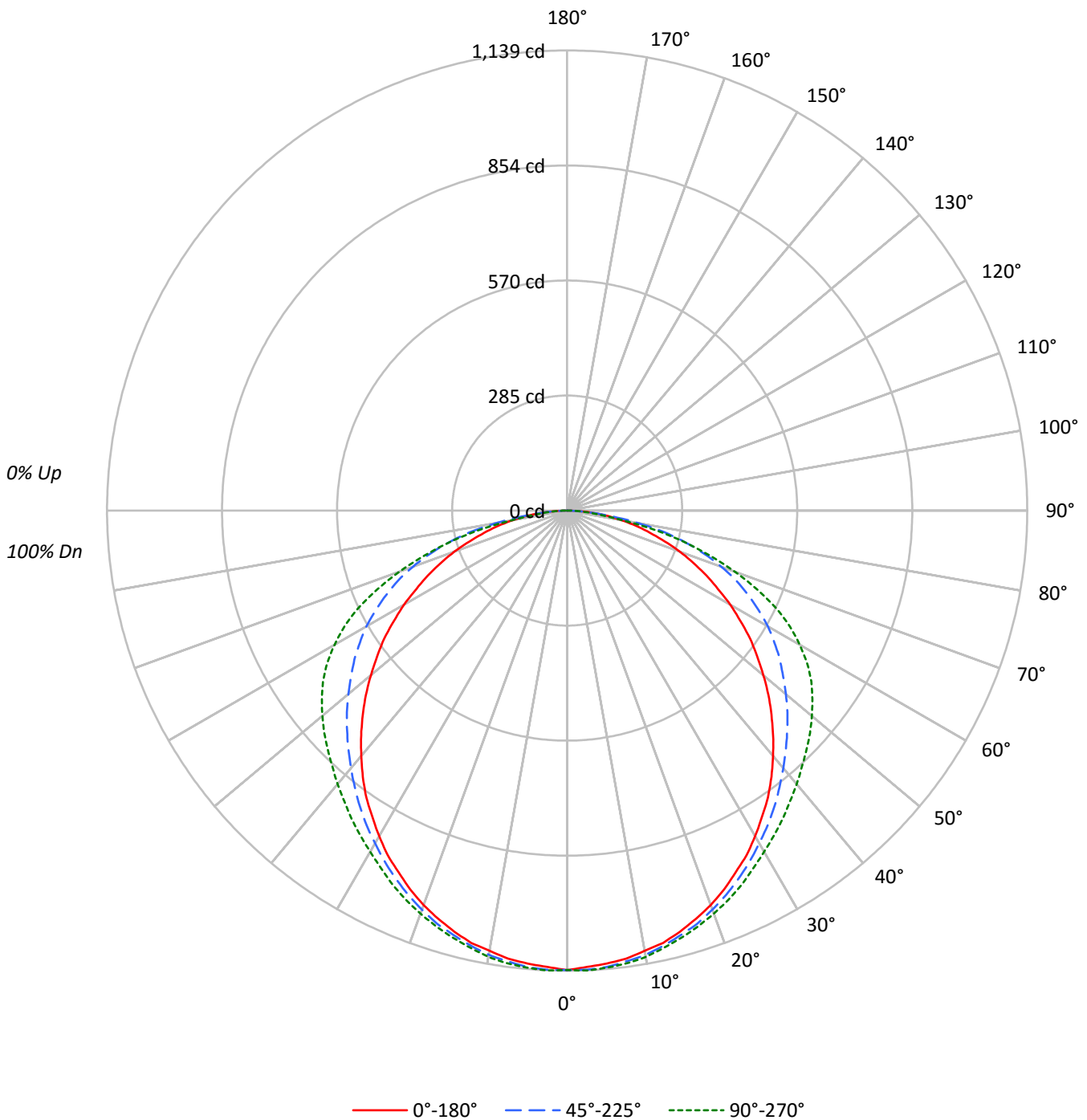
Lumens per Lamp: N/A
Luminaire Lumens: 3461.2 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 33.8
Input Voltage (V): NR
Input Current (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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	43	38
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33
8	59	45	36	31	57	45	36	30	43	36	30	42	35	30	41	34	30
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3643	3643	3643
5°	3618	3646	3651
10°	3598	3632	3648
15°	3577	3606	3628
20°	3542	3583	3618
25°	3489	3550	3611
30°	3441	3518	3607
35°	3389	3497	3638
40°	3314	3480	3696
45°	3239	3489	3794
50°	3160	3520	3941
55°	3089	3589	4118
60°	2991	3676	4261
65°	2886	3748	4322
70°	2775	3808	4131
75°	2623	3732	3711
80°	2510	3274	2575
85°	2344	2344	1900



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	3.1
10°-20°	306.8	8.9
20°-30°	463.2	13.4
30°-40°	560.9	16.2
40°-50°	597.4	17.3
50°-60°	574.7	16.6
60°-70°	479.8	13.9
70°-80°	296.0	8.6
80°-90°	75.1	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°	877.5	25.4
0°-40°	1438.5	41.6
0°-60°	2610.5	75.4
0°-90°	3461.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3461.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1137	1137	1137	1137	1137	
5°	1125	1129	1134	1136	1136	107
15°	1079	1082	1088	1093	1094	304
25°	988	993	1005	1017	1022	456
35°	867	874	894	919	931	541
45°	715	731	770	815	838	552
55°	553	581	643	707	738	493
65°	381	431	495	546	570	376
75°	212	269	302	303	300	226
85°	64	78	64	53	52	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1137.4	1137.4	1137.4	1137.4	1137.4
2.5°	1130.5	1132.3	1137.4	1139.2	1139.2
5°	1125.4	1128.8	1134.0	1135.7	1135.7
7.5°	1118.5	1120.2	1125.4	1128.8	1130.5
10°	1106.4	1109.9	1116.8	1120.2	1121.9
12.5°	1096.1	1096.1	1103.0	1108.1	1108.1
15°	1078.8	1082.3	1087.5	1092.6	1094.4
17.5°	1059.9	1063.3	1072.0	1077.1	1078.8
20°	1039.2	1042.7	1051.3	1058.2	1061.6
22.5°	1015.1	1018.5	1028.9	1039.2	1042.7
25°	987.5	992.7	1004.7	1016.8	1022.0
27.5°	961.7	965.1	978.9	992.7	997.8
30°	930.6	935.8	951.3	968.5	975.4
32.5°	897.9	906.5	923.7	944.4	953.0
35°	866.9	873.8	894.4	918.6	930.6
37.5°	830.7	839.3	863.4	892.7	906.5
40°	792.8	803.1	832.4	865.1	884.1
42.5°	754.8	768.6	801.4	841.0	860.0
45°	715.2	730.7	770.4	815.2	837.6
47.5°	675.6	694.5	739.3	789.3	815.2
50°	634.2	656.6	706.6	763.5	791.0
52.5°	592.8	618.7	673.8	734.2	765.2
55°	553.2	580.8	642.8	706.6	737.6
57.5°	508.4	541.1	608.4	672.1	704.9
60°	467.0	505.0	573.9	635.9	665.2
62.5°	420.5	468.8	534.3	596.3	622.1
65°	380.9	430.8	494.6	546.3	570.4
67.5°	337.8	391.2	453.3	494.6	508.4
70°	296.4	351.6	406.7	434.3	441.2
72.5°	253.3	311.9	356.7	372.3	370.5
75°	212.0	268.8	301.6	303.3	299.9
77.5°	174.1	224.0	246.4	232.7	225.8
80°	136.1	175.8	177.5	155.1	139.6
82.5°	100.0	127.5	113.7	93.1	84.4
85°	63.8	77.6	63.8	53.4	51.7
87.5°	27.6	31.0	24.1	22.4	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)