

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: P189568

Luminaire Tested: **BRG-WN-1L40-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189568
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-1L40-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND NANO PRISM INLAY
LIGHT LEVEL 1 (408 mA)
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

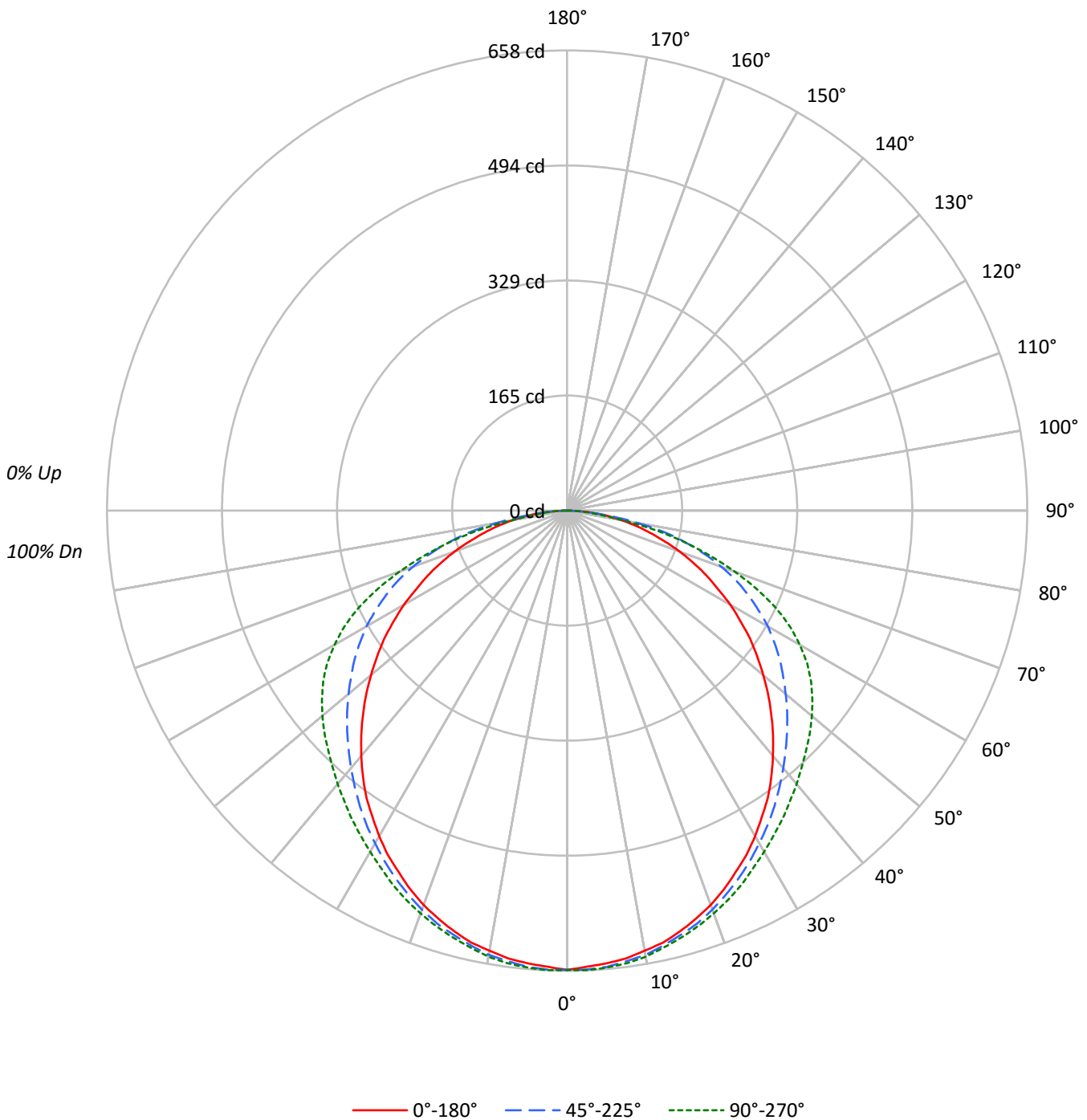
Lumens per Lamp: N/A
Luminaire Lumens: 1998.7 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 18.6
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	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°	2103	2103	2103
5°	2089	2105	2108
10°	2078	2097	2107
15°	2066	2082	2095
20°	2045	2069	2089
25°	2015	2050	2085
30°	1987	2031	2083
35°	1957	2019	2101
40°	1914	2010	2134
45°	1870	2015	2190
50°	1824	2033	2276
55°	1783	2073	2378
60°	1727	2123	2460
65°	1666	2164	2496
70°	1603	2199	2386
75°	1515	2155	2143
80°	1450	1890	1486
85°	1352	1352	1099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	3.1
10°-20°	177.2	8.9
20°-30°	267.4	13.4
30°-40°	323.9	16.2
40°-50°	344.9	17.3
50°-60°	331.8	16.6
60°-70°	277.0	13.9
70°-80°	170.9	8.6
80°-90°	43.3	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°	506.7	25.4
0°-40°	830.6	41.6
0°-60°	1507.4	75.4
0°-90°	1998.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1998.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	657	657	657	657	657	
5°	650	652	655	656	656	62
15°	623	625	628	631	632	176
25°	570	573	580	587	590	263
35°	501	504	516	530	537	313
45°	413	422	445	471	484	319
55°	319	335	371	408	426	285
65°	220	249	286	316	329	217
75°	122	155	174	175	173	130
85°	37	45	37	31	30	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	656.8	656.8	656.8	656.8	656.8
2.5°	652.8	653.8	656.8	657.8	657.8
5°	649.8	651.8	654.8	655.8	655.8
7.5°	645.9	646.9	649.8	651.8	652.8
10°	638.9	640.9	644.9	646.9	647.8
12.5°	632.9	632.9	636.9	639.9	639.9
15°	623.0	625.0	627.9	630.9	631.9
17.5°	612.0	614.0	619.0	622.0	623.0
20°	600.1	602.1	607.0	611.0	613.0
22.5°	586.1	588.1	594.1	600.1	602.1
25°	570.2	573.2	580.2	587.1	590.1
27.5°	555.3	557.3	565.3	573.2	576.2
30°	537.4	540.4	549.3	559.3	563.3
32.5°	518.5	523.5	533.4	545.3	550.3
35°	500.6	504.5	516.5	530.4	537.4
37.5°	479.7	484.6	498.6	515.5	523.5
40°	457.8	463.7	480.7	499.6	510.5
42.5°	435.9	443.8	462.7	485.6	496.6
45°	413.0	421.9	444.8	470.7	483.6
47.5°	390.1	401.0	426.9	455.8	470.7
50°	366.2	379.2	408.0	440.9	456.8
52.5°	342.3	357.3	389.1	423.9	441.9
55°	319.4	335.4	371.2	408.0	425.9
57.5°	293.6	312.5	351.3	388.1	407.0
60°	269.7	291.6	331.4	367.2	384.1
62.5°	242.8	270.7	308.5	344.3	359.3
65°	219.9	248.8	285.6	315.5	329.4
67.5°	195.1	225.9	261.7	285.6	293.6
70°	171.2	203.0	234.9	250.8	254.8
72.5°	146.3	180.1	206.0	215.0	214.0
75°	122.4	155.2	174.2	175.1	173.2
77.5°	100.5	129.4	142.3	134.3	130.4
80°	78.6	101.5	102.5	89.6	80.6
82.5°	57.7	73.6	65.7	53.7	48.8
85°	36.8	44.8	36.8	30.8	29.9
87.5°	15.9	17.9	13.9	12.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)