

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: P189584

Luminaire Tested: **BRG-WS-1L40-LD2-UNV-14-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34878)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WS-1L40-LD2-UNV-14-STD
Description: BRIDGE 1x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 1 (425 mA)
Light Source: (308) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

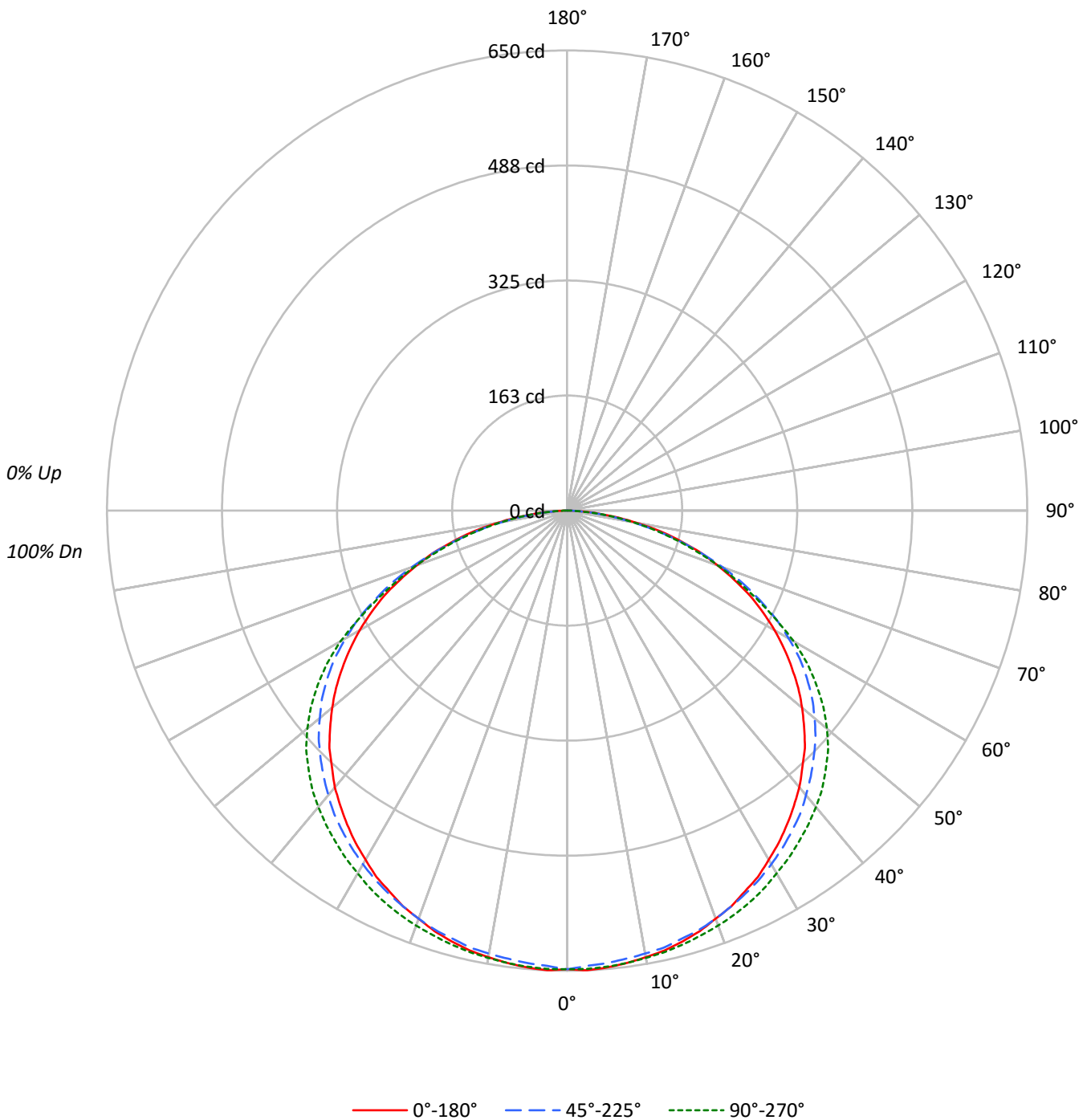
Lumens per Lamp: N/A
Luminaire Lumens: 2123.2 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.36 / 1.47
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 18.7
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	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
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	64	60	68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	35	30	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	27	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1985	1985	1985
5°	1992	1973	1989
10°	1993	1976	1996
15°	1999	1985	2012
20°	2000	2000	2034
25°	2007	2017	2063
30°	2015	2041	2093
35°	2025	2068	2135
40°	2041	2099	2187
45°	2058	2134	2238
50°	2065	2174	2283
55°	2069	2208	2298
60°	2074	2214	2266
65°	2069	2182	2144
70°	2024	2090	2034
75°	1960	1910	1874
80°	1764	1635	1653
85°	1392	1244	1170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	2.9
10°-20°	178.2	8.4
20°-30°	277.0	13.0
30°-40°	347.7	16.4
40°-50°	381.5	18.0
50°-60°	367.0	17.3
60°-70°	292.7	13.8
70°-80°	173.7	8.2
80°-90°	43.9	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°	516.6	24.3
0°-40°	864.4	40.7
0°-60°	1612.9	76.0
0°-90°	2123.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2123.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	648	648	648	648	648	
5°	648	647	642	647	647	62
15°	630	629	626	633	634	178
25°	594	595	597	607	610	274
35°	542	544	553	567	571	339
45°	475	479	493	510	517	366
55°	388	397	414	426	430	346
65°	285	297	301	297	296	281
75°	166	178	161	158	158	174
85°	40	38	35	33	33	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	647.9	647.9	647.9	647.9	647.9
2.5°	649.9	648.9	643.7	648.9	647.9
5°	647.9	646.8	641.6	646.8	646.8
7.5°	644.7	643.7	638.5	644.7	644.7
10°	640.6	639.5	635.4	641.6	641.6
12.5°	636.4	635.4	632.2	638.5	638.5
15°	630.2	629.1	626.0	633.3	634.3
17.5°	622.9	621.8	620.8	629.1	629.1
20°	613.5	613.5	613.5	622.9	623.9
22.5°	605.2	605.2	605.2	615.6	617.7
25°	593.7	594.7	596.8	607.2	610.4
27.5°	583.3	583.3	587.5	598.9	602.0
30°	569.7	571.8	577.0	588.5	591.6
32.5°	556.2	559.3	565.6	578.1	582.2
35°	541.6	543.7	553.1	566.6	570.8
37.5°	526.0	529.1	540.6	555.2	559.3
40°	510.4	513.5	525.0	541.6	546.8
42.5°	491.6	496.8	509.3	526.0	533.3
45°	475.0	479.1	492.7	510.4	516.6
47.5°	454.1	460.4	476.0	492.7	500.0
50°	433.3	440.6	456.2	473.9	479.1
52.5°	411.4	419.8	436.4	451.0	456.2
55°	387.5	396.8	413.5	426.0	430.2
57.5°	363.5	375.0	389.6	397.9	402.1
60°	338.5	348.9	361.4	367.7	369.8
62.5°	312.5	322.9	333.3	332.3	332.3
65°	285.4	296.9	301.0	296.9	295.8
67.5°	255.2	268.7	268.7	261.4	260.4
70°	226.0	239.6	233.3	226.0	227.1
72.5°	197.9	210.4	196.9	190.6	191.7
75°	165.6	178.1	161.4	158.3	158.3
77.5°	134.4	142.7	127.1	125.0	126.0
80°	100.0	107.3	92.7	91.7	93.7
82.5°	67.7	69.8	61.5	62.5	64.6
85°	39.6	37.5	35.4	33.3	33.3
87.5°	14.6	14.6	11.5	10.4	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)