

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: P189629

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34885)
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-14-STD
Description: BRIDGE 1x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND NANO PRISM INLAY
LIGHT LEVEL 1 (425 mA)
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

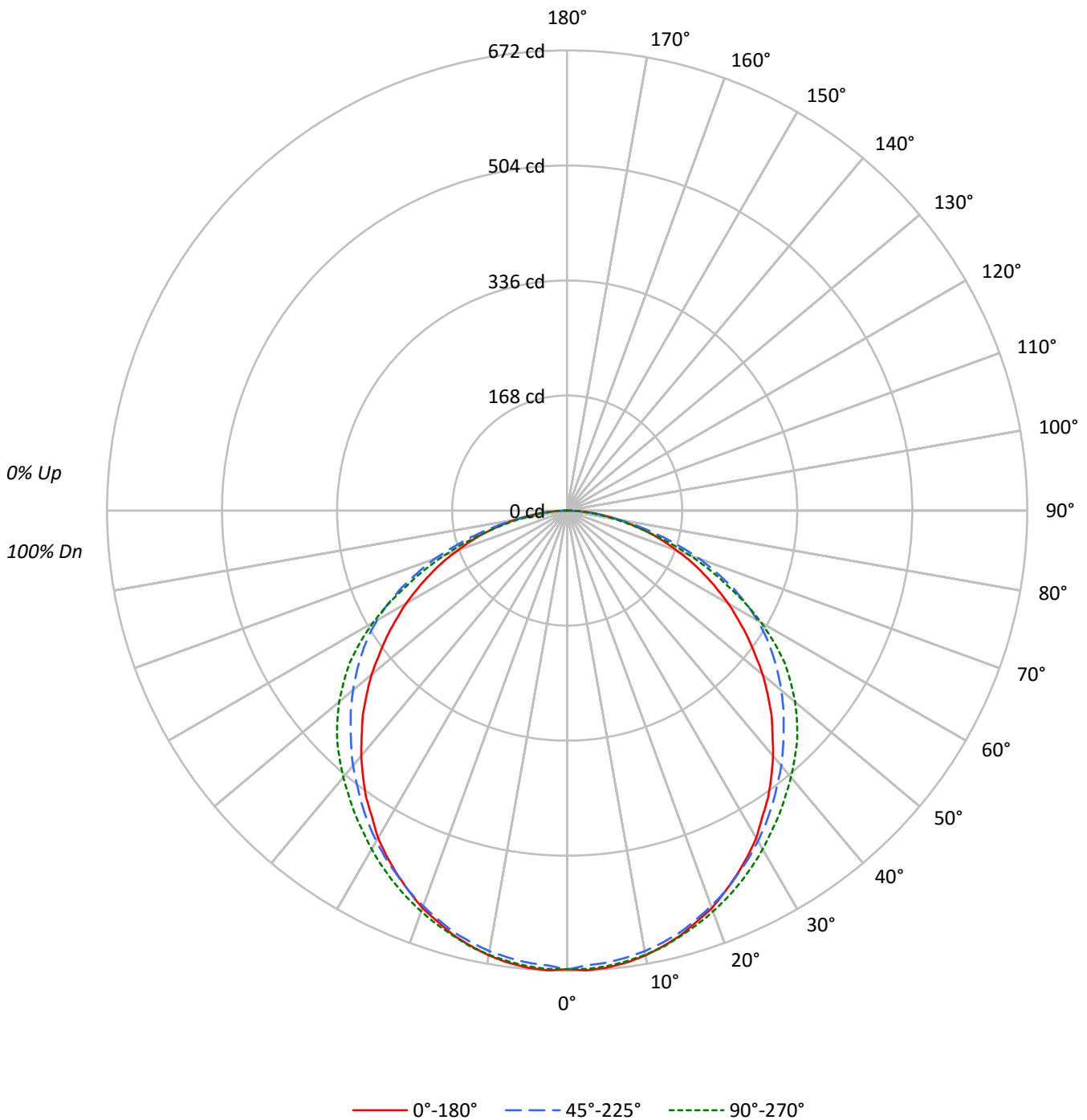
Lumens per Lamp: N/A
Luminaire Lumens: 1946.1 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')
CIE Type: Direct

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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2052	2052	2052
5°	2060	2037	2053
10°	2051	2032	2048
15°	2035	2022	2039
20°	2014	2004	2031
25°	1983	1986	2025
30°	1953	1972	2020
35°	1913	1956	2022
40°	1871	1946	2033
45°	1828	1936	2058
50°	1778	1946	2071
55°	1719	1958	2070
60°	1666	1966	2005
65°	1601	1933	1865
70°	1521	1839	1708
75°	1455	1640	1455
80°	1360	1342	1231
85°	1244	1061	1061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	3.3
10°-20°	180.8	9.3
20°-30°	272.5	14.0
30°-40°	328.5	16.9
40°-50°	345.8	17.8
50°-60°	322.2	16.6
60°-70°	251.5	12.9
70°-80°	143.8	7.4
80°-90°	37.6	1.9
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	26.5
0°-40°	845.2	43.4
0°-60°	1513.2	77.8
0°-90°	1946.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1946.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	670	668	663	668	668	64
15°	642	641	638	644	643	181
25°	587	587	588	597	599	270
35°	512	515	523	537	541	320
45°	422	430	447	468	475	325
55°	322	340	367	383	388	288
65°	221	249	267	263	257	219
75°	123	155	139	127	123	130
85°	35	34	30	29	30	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	669.9	669.9	669.9	669.9	669.9
2.5°	672.0	671.0	664.7	671.0	669.9
5°	669.9	667.8	662.6	667.8	667.8
7.5°	665.8	663.7	658.5	664.7	663.7
10°	659.5	658.5	653.3	658.5	658.5
12.5°	651.2	650.1	646.0	651.2	652.2
15°	641.8	640.8	637.6	643.9	642.8
17.5°	629.3	629.3	626.2	633.5	633.5
20°	617.8	616.8	614.7	622.0	623.0
22.5°	602.2	601.2	602.2	610.5	611.6
25°	586.6	586.6	587.6	597.0	599.1
27.5°	569.9	571.0	573.0	583.5	585.5
30°	552.2	553.2	557.4	567.8	571.0
32.5°	530.3	534.5	540.7	552.2	555.3
35°	511.6	514.7	523.0	536.6	540.7
37.5°	489.7	493.9	504.3	519.9	524.1
40°	467.8	473.0	486.6	502.2	508.4
42.5°	443.8	452.2	466.8	484.5	491.8
45°	422.0	430.3	447.0	467.8	475.1
47.5°	397.0	407.4	428.2	448.0	455.3
50°	373.0	384.5	408.4	428.2	434.5
52.5°	345.9	362.6	387.6	406.3	411.5
55°	321.9	339.7	366.7	383.4	387.6
57.5°	295.9	317.8	344.9	357.4	358.4
60°	271.9	295.9	320.9	327.2	327.2
62.5°	245.9	273.0	294.9	295.9	293.8
65°	220.9	249.0	266.7	262.6	257.3
67.5°	196.9	227.1	235.5	228.2	224.0
70°	169.8	204.2	205.3	193.8	190.7
72.5°	146.9	179.2	171.9	159.4	156.3
75°	122.9	155.2	138.6	127.1	122.9
77.5°	97.9	127.1	107.3	95.9	94.8
80°	77.1	95.9	76.1	68.8	69.8
82.5°	54.2	63.6	50.0	49.0	49.0
85°	35.4	34.4	30.2	29.2	30.2
87.5°	15.6	14.6	13.5	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)