

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: P189630

Luminaire Tested: **BRG-WN-2L40-LD2-UNV-14-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189630
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-2L40-LD2-UNV-14-STD
Description: BRIDGE 1x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND NANO PRISM INLAY
LIGHT LEVEL 2 (635 mA)
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

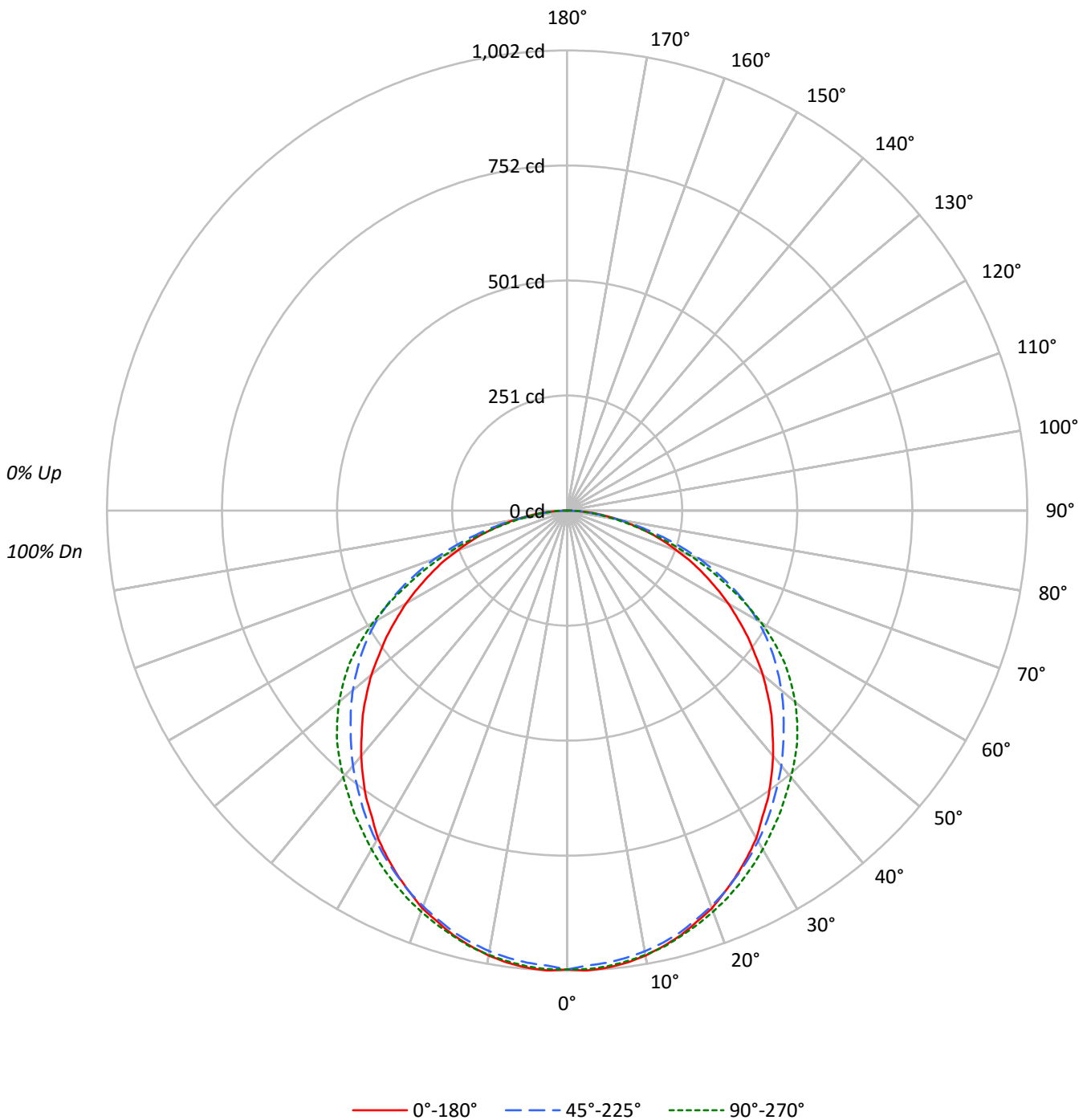
Lumens per Lamp: N/A
Luminaire Lumens: 2902.9 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.1
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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3061	3061	3061
5°	3073	3039	3063
10°	3060	3031	3055
15°	3036	3016	3041
20°	3004	2989	3030
25°	2957	2962	3020
30°	2914	2941	3013
35°	2854	2918	3016
40°	2790	2902	3033
45°	2727	2888	3070
50°	2652	2903	3089
55°	2565	2922	3087
60°	2485	2933	2990
65°	2388	2884	2783
70°	2269	2742	2547
75°	2171	2446	2171
80°	2029	2002	1836
85°	1856	1585	1585



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	3.3
10°-20°	269.7	9.3
20°-30°	406.5	14.0
30°-40°	490.1	16.9
40°-50°	515.8	17.8
50°-60°	480.6	16.6
60°-70°	375.2	12.9
70°-80°	214.5	7.4
80°-90°	56.0	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°	770.6	26.5
0°-40°	1260.7	43.4
0°-60°	2257.2	77.8
0°-90°	2902.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2902.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	999	999	999	999	999	
5°	999	996	988	996	996	95
15°	957	956	951	960	959	270
25°	875	875	876	890	894	403
35°	763	768	780	800	807	477
45°	629	642	667	698	709	485
55°	480	507	547	572	578	429
65°	330	371	398	392	384	326
75°	183	232	207	190	183	193
85°	53	51	45	44	45	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	999.3	999.3	999.3	999.3	999.3
2.5°	1002.4	1000.9	991.5	1000.9	999.3
5°	999.3	996.2	988.4	996.2	996.2
7.5°	993.1	990.0	982.2	991.5	990.0
10°	983.8	982.2	974.4	982.2	982.2
12.5°	971.3	969.8	963.6	971.3	972.9
15°	957.3	955.8	951.1	960.5	958.9
17.5°	938.7	938.7	934.0	944.9	944.9
20°	921.6	920.0	916.9	927.8	929.4
22.5°	898.3	896.7	898.3	910.7	912.3
25°	875.0	875.0	876.5	890.5	893.6
27.5°	850.1	851.7	854.8	870.3	873.4
30°	823.7	825.2	831.5	847.0	851.7
32.5°	791.1	797.3	806.6	823.7	828.4
35°	763.1	767.7	780.2	800.4	806.6
37.5°	730.4	736.7	752.2	775.5	781.7
40°	697.8	705.6	725.8	749.1	758.4
42.5°	662.1	674.5	696.3	722.7	733.5
45°	629.4	641.9	666.7	697.8	708.7
47.5°	592.1	607.7	638.7	668.3	679.2
50°	556.4	573.5	609.2	638.7	648.1
52.5°	516.0	540.8	578.1	606.1	613.9
55°	480.2	506.6	547.1	571.9	578.1
57.5°	441.4	474.0	514.4	533.1	534.6
60°	405.6	441.4	478.7	488.0	488.0
62.5°	366.8	407.2	439.8	441.4	438.3
65°	329.5	371.4	397.9	391.6	383.9
67.5°	293.7	338.8	351.2	340.4	334.1
70°	253.3	304.6	306.2	289.1	284.4
72.5°	219.1	267.3	256.4	237.8	233.1
75°	183.4	231.6	206.7	189.6	183.4
77.5°	146.1	189.6	160.1	143.0	141.4
80°	115.0	143.0	113.5	102.6	104.1
82.5°	80.8	94.8	74.6	73.0	73.0
85°	52.8	51.3	45.1	43.5	45.1
87.5°	23.3	21.8	20.2	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)