

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: P189704

Luminaire Tested: **BRG-WN-1L40-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34876)
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-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND NANO PRISM INLAY
LIGHT LEVEL 1 (615 mA)
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

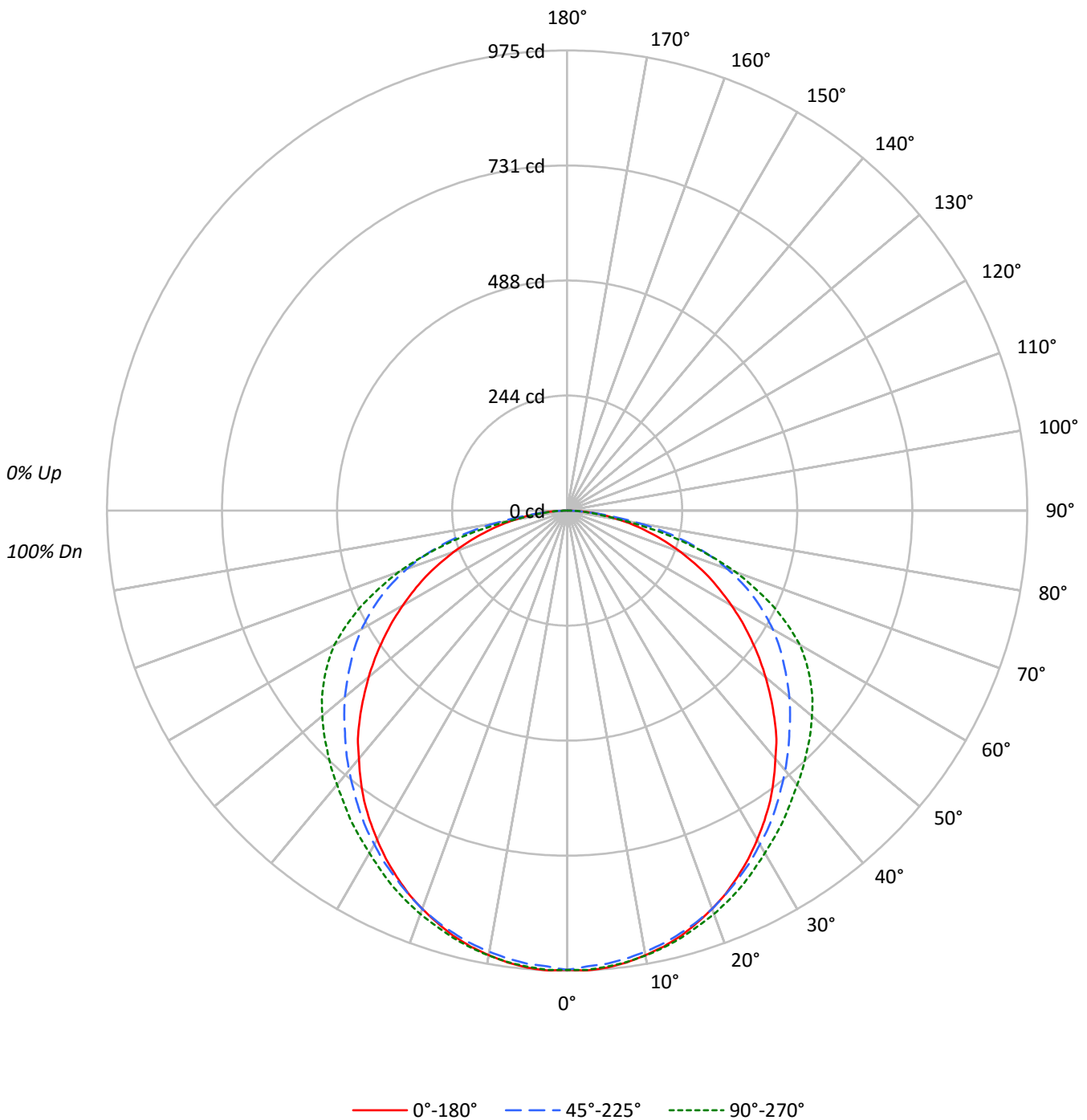
Lumens per Lamp: N/A
Luminaire Lumens: 2996.2 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 27.1
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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	98	94	105	101	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68	63	58	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		49	42	38	35
7	63	49	40	34	62	49	40	34	47	39	34		46	39	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27		38	32	27		37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24		36	29	24		35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1490	1490	1490
5°	1495	1482	1491
10°	1487	1476	1489
15°	1479	1470	1485
20°	1464	1464	1482
25°	1446	1453	1482
30°	1424	1445	1482
35°	1403	1440	1496
40°	1373	1437	1517
45°	1345	1442	1557
50°	1308	1465	1614
55°	1271	1494	1680
60°	1232	1541	1746
65°	1197	1586	1752
70°	1143	1619	1698
75°	1079	1585	1504
80°	1011	1379	1048
85°	916	879	750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	3.1
10°-20°	263.1	8.8
20°-30°	398.3	13.3
30°-40°	483.6	16.1
40°-50°	516.4	17.2
50°-60°	498.3	16.6
60°-70°	418.3	14.0
70°-80°	260.6	8.7
80°-90°	65.7	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°	753.4	25.1
0°-40°	1236.9	41.3
0°-60°	2251.6	75.1
0°-90°	2996.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2996.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	973	973	973	973	973	
5°	972	970	964	970	970	92
15°	932	931	927	936	937	263
25°	855	856	860	873	877	394
35°	750	754	770	791	800	469
45°	621	634	666	703	719	479
55°	476	506	560	610	629	426
65°	330	380	438	472	483	326
75°	182	249	268	262	254	193
85°	52	73	50	44	43	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	973.1	973.1	973.1	973.1	973.1
2.5°	975.2	973.1	966.8	973.1	974.1
5°	972.1	970.0	963.7	970.0	970.0
7.5°	965.8	963.7	957.5	964.8	964.8
10°	956.4	955.4	949.1	957.5	957.5
12.5°	946.0	945.0	939.8	948.1	948.1
15°	932.5	931.4	927.3	935.6	936.6
17.5°	915.8	915.8	913.7	922.0	923.1
20°	898.1	898.1	898.1	908.5	909.5
22.5°	878.3	877.2	879.3	890.8	893.9
25°	855.4	856.4	859.5	873.1	877.2
27.5°	831.4	833.5	839.7	854.3	857.4
30°	805.4	808.5	816.8	833.5	837.7
32.5°	778.3	782.4	794.9	811.6	818.9
35°	750.1	754.3	769.9	790.8	800.1
37.5°	718.9	725.1	743.9	769.9	778.3
40°	686.6	696.0	718.9	747.0	758.5
42.5°	656.4	665.7	692.8	725.1	739.7
45°	620.9	634.5	665.7	703.3	718.9
47.5°	584.5	603.2	640.7	680.3	699.1
50°	549.1	569.9	614.7	658.5	677.2
52.5°	512.6	539.7	586.6	634.5	655.3
55°	476.1	506.3	559.5	609.5	629.3
57.5°	439.7	477.2	532.4	581.4	601.2
60°	402.2	444.9	503.2	550.1	569.9
62.5°	365.7	412.6	470.9	513.6	528.2
65°	330.3	380.3	437.6	472.0	483.4
67.5°	291.7	349.0	401.1	427.2	431.3
70°	255.3	317.8	361.5	376.1	379.2
72.5°	217.7	285.5	317.8	319.9	317.8
75°	182.3	249.0	267.8	261.5	254.2
77.5°	147.9	211.5	215.7	195.9	188.6
80°	114.6	170.9	156.3	131.3	118.8
82.5°	81.3	126.1	96.9	77.1	71.9
85°	52.1	72.9	50.0	43.8	42.7
87.5°	24.0	27.1	20.8	18.8	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)