

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: P189570

Luminaire Tested: **BRG-WN-3L40-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189570
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-3L40-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND NANO PRISM INLAY
LIGHT LEVEL 3 (628 mA)
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

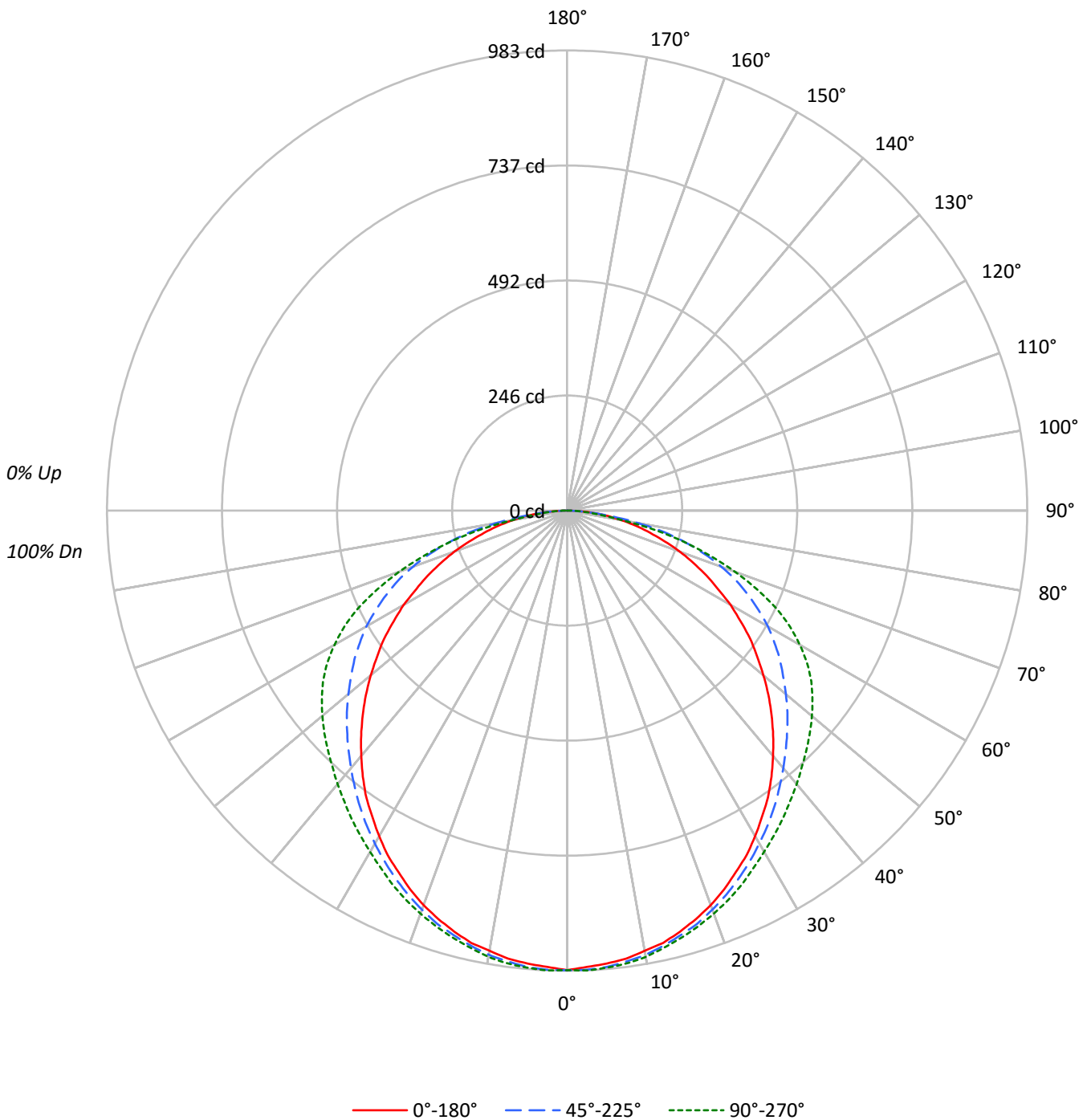
Lumens per Lamp: N/A
Luminaire Lumens: 2987.3 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.7
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°	3144	3144	3144
5°	3122	3146	3151
10°	3105	3134	3149
15°	3087	3112	3131
20°	3057	3092	3122
25°	3012	3064	3117
30°	2970	3036	3113
35°	2925	3018	3140
40°	2860	3003	3190
45°	2796	3011	3274
50°	2727	3038	3401
55°	2666	3098	3554
60°	2582	3172	3677
65°	2491	3235	3731
70°	2395	3287	3566
75°	2264	3221	3202
80°	2167	2825	2222
85°	2021	2021	1639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.8	3.1
10°-20°	264.8	8.9
20°-30°	399.7	13.4
30°-40°	484.1	16.2
40°-50°	515.6	17.3
50°-60°	496.0	16.6
60°-70°	414.1	13.9
70°-80°	255.4	8.6
80°-90°	64.8	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°	757.4	25.4
0°-40°	1241.5	41.6
0°-60°	2253.0	75.4
0°-90°	2987.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2987.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	982	982	982	982	982	
5°	971	974	979	980	980	92
15°	931	934	939	943	944	263
25°	852	857	867	878	882	393
35°	748	754	772	793	803	467
45°	617	631	665	704	723	476
55°	478	501	555	610	637	426
65°	329	372	427	472	492	325
75°	183	232	260	262	259	195
85°	55	67	55	46	45	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	981.7	981.7	981.7	981.7	981.7
2.5°	975.7	977.2	981.7	983.2	983.2
5°	971.3	974.3	978.7	980.2	980.2
7.5°	965.3	966.8	971.3	974.3	975.7
10°	954.9	957.9	963.8	966.8	968.3
12.5°	946.0	946.0	951.9	956.4	956.4
15°	931.1	934.1	938.6	943.0	944.5
17.5°	914.8	917.7	925.2	929.6	931.1
20°	896.9	899.9	907.3	913.3	916.2
22.5°	876.1	879.1	888.0	896.9	899.9
25°	852.3	856.8	867.2	877.6	882.0
27.5°	830.0	833.0	844.9	856.8	861.2
30°	803.2	807.7	821.1	835.9	841.9
32.5°	774.9	782.4	797.3	815.1	822.5
35°	748.2	754.1	772.0	792.8	803.2
37.5°	716.9	724.4	745.2	770.5	782.4
40°	684.2	693.1	718.4	746.7	763.0
42.5°	651.5	663.4	691.6	725.9	742.2
45°	617.3	630.7	664.9	703.5	722.9
47.5°	583.1	599.4	638.1	681.2	703.5
50°	547.4	566.7	609.8	658.9	682.7
52.5°	511.7	534.0	581.6	633.6	660.4
55°	477.5	501.3	554.8	609.8	636.6
57.5°	438.8	467.0	525.1	580.1	608.4
60°	403.1	435.8	495.3	548.9	574.1
62.5°	362.9	404.6	461.1	514.6	537.0
65°	328.7	371.9	426.9	471.5	492.3
67.5°	291.5	337.6	391.2	426.9	438.8
70°	255.8	303.4	351.0	374.8	380.8
72.5°	218.7	269.2	307.9	321.3	319.8
75°	183.0	232.0	260.3	261.8	258.8
77.5°	150.2	193.4	212.7	200.8	194.9
80°	117.5	151.7	153.2	133.9	120.5
82.5°	86.3	110.1	98.2	80.3	72.9
85°	55.0	66.9	55.0	46.1	44.6
87.5°	23.8	26.8	20.8	19.3	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)