

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: P189586

Luminaire Tested: **BRG-WS-3L40-LD2-UNV-14-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189586
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-3L40-LD2-UNV-14-STD
Description: BRIDGE 1x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 3 (865 mA)
Light Source: (308) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

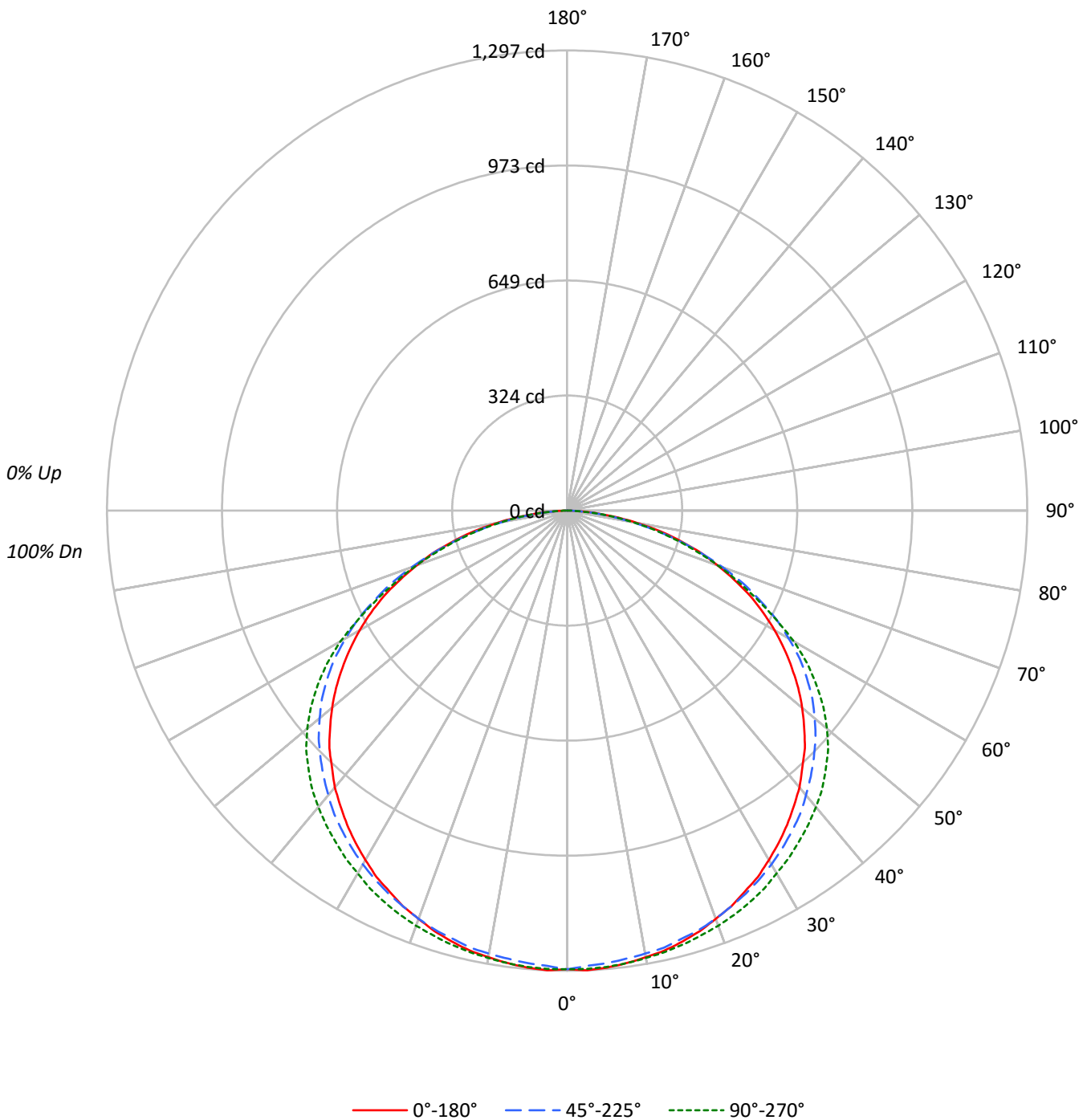
Lumens per Lamp: N/A
Luminaire Lumens: 4236.9 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.36 / 1.47
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
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	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°	3960	3960	3960
5°	3976	3937	3969
10°	3976	3944	3983
15°	3988	3962	4014
20°	3991	3991	4059
25°	4005	4025	4117
30°	4022	4073	4176
35°	4042	4127	4260
40°	4073	4189	4363
45°	4106	4259	4466
50°	4121	4339	4556
55°	4129	4407	4584
60°	4138	4419	4521
65°	4128	4354	4279
70°	4039	4170	4058
75°	3912	3813	3739
80°	3519	3263	3301
85°	2777	2485	2337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	2.9
10°-20°	355.6	8.4
20°-30°	552.8	13.0
30°-40°	693.9	16.4
40°-50°	761.3	18.0
50°-60°	732.5	17.3
60°-70°	584.2	13.8
70°-80°	346.6	8.2
80°-90°	87.5	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°	1031.0	24.3
0°-40°	1724.9	40.7
0°-60°	3218.6	76.0
0°-90°	4236.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4236.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1293	1293	1293	1293	1293	
5°	1293	1291	1280	1291	1291	123
15°	1258	1256	1249	1264	1266	355
25°	1185	1187	1191	1212	1218	547
35°	1081	1085	1104	1131	1139	677
45°	948	956	983	1018	1031	730
55°	773	792	825	850	858	691
65°	570	592	601	592	590	561
75°	330	355	322	316	316	348
85°	79	75	71	66	66	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1292.9	1292.9	1292.9	1292.9	1292.9
2.5°	1297.0	1294.9	1284.6	1294.9	1292.9
5°	1292.9	1290.8	1280.4	1290.8	1290.8
7.5°	1286.6	1284.6	1274.2	1286.6	1286.6
10°	1278.3	1276.2	1267.9	1280.4	1280.4
12.5°	1270.0	1267.9	1261.7	1274.2	1274.2
15°	1257.5	1255.5	1249.2	1263.8	1265.8
17.5°	1243.0	1240.9	1238.8	1255.5	1255.5
20°	1224.3	1224.3	1224.3	1243.0	1245.1
22.5°	1207.6	1207.6	1207.6	1228.4	1232.6
25°	1184.8	1186.9	1191.0	1211.8	1218.0
27.5°	1164.0	1164.0	1172.3	1195.2	1201.4
30°	1137.0	1141.1	1151.5	1174.4	1180.6
32.5°	1110.0	1116.2	1128.7	1153.6	1161.9
35°	1080.9	1085.0	1103.7	1130.7	1139.1
37.5°	1049.7	1055.9	1078.8	1107.9	1116.2
40°	1018.5	1024.7	1047.6	1080.9	1091.2
42.5°	981.1	991.5	1016.4	1049.7	1064.2
45°	947.8	956.1	983.2	1018.5	1031.0
47.5°	906.3	918.7	949.9	983.2	997.7
50°	864.7	879.2	910.4	945.7	956.1
52.5°	821.0	837.7	870.9	900.0	910.4
55°	773.2	791.9	825.2	850.1	858.4
57.5°	725.4	748.3	777.4	794.0	802.3
60°	675.5	696.3	721.3	733.7	737.9
62.5°	623.6	644.4	665.1	663.1	663.1
65°	569.5	592.4	600.7	592.4	590.3
67.5°	509.2	536.3	536.3	521.7	519.6
70°	451.0	478.1	465.6	451.0	453.1
72.5°	394.9	419.9	392.8	380.4	382.5
75°	330.5	355.4	322.2	315.9	315.9
77.5°	268.1	284.8	253.6	249.4	251.5
80°	199.5	214.1	185.0	182.9	187.1
82.5°	135.1	139.3	122.6	124.7	128.9
85°	79.0	74.8	70.7	66.5	66.5
87.5°	29.1	29.1	22.9	20.8	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)