

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: P189676

Luminaire Tested: **BRG-WG-3L40-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34874)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WG-3L40-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND
RECTANGULAR PERF INLAY
LIGHT LEVEL 3 (1040 mA)
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4766.9 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

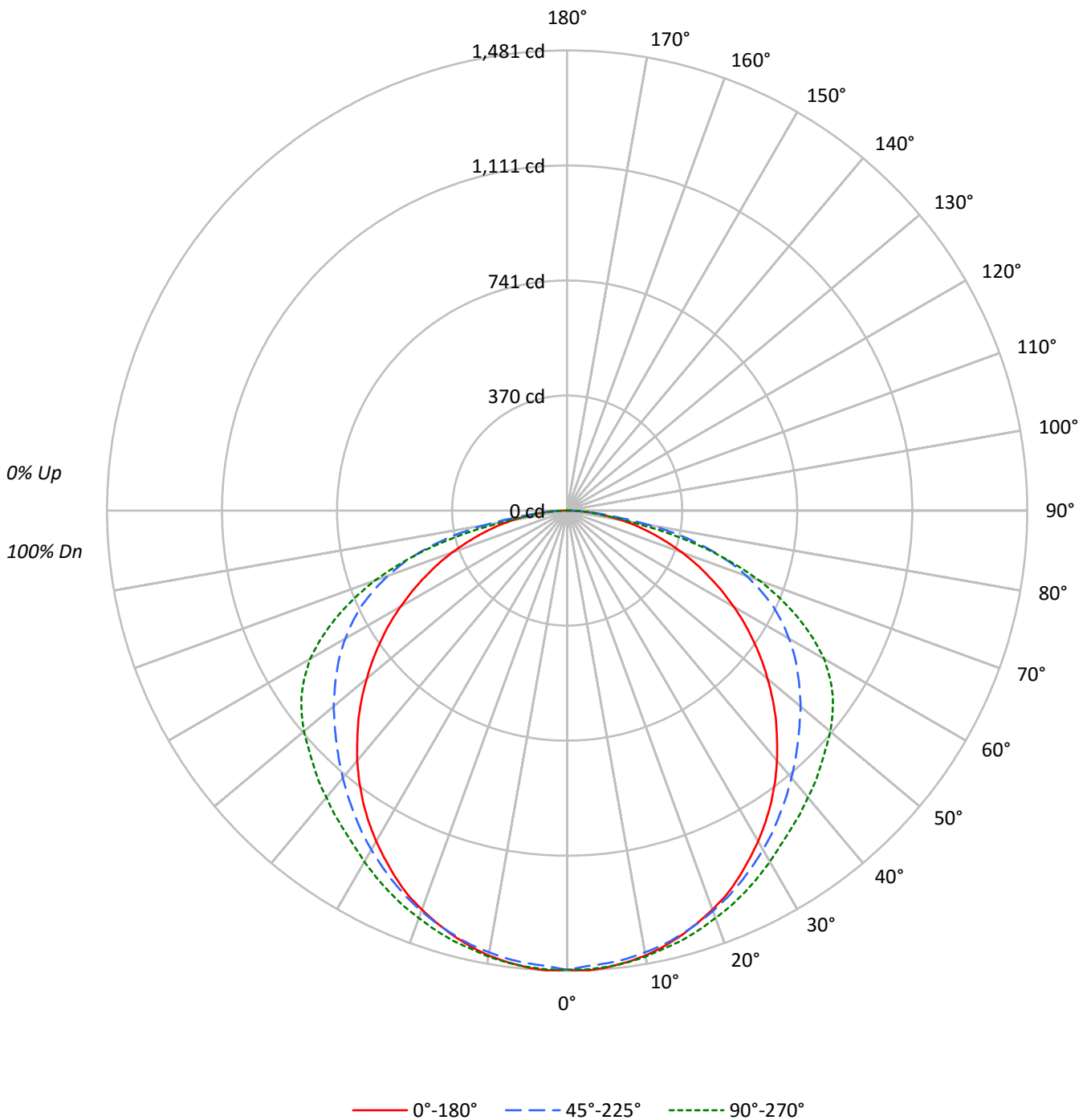
Input Watts (W): 47.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	88	81	75	95	87	80	74	83	77	72	80	75	71	76	73	69	67
3	88	77	68	61	86	75	67	61	72	65	60	69	64	59	67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	42	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33	45	38	33	43	37	32	30
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	55	41	32	26	53	40	32	26	39	31	26	38	31	26	37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2264	2264	2264
5°	2270	2249	2267
10°	2261	2245	2266
15°	2246	2240	2270
20°	2227	2236	2275
25°	2205	2231	2289
30°	2174	2229	2308
35°	2141	2231	2343
40°	2101	2245	2410
45°	2057	2277	2503
50°	2006	2337	2635
55°	1955	2417	2788
60°	1896	2526	2925
65°	1827	2653	2983
70°	1758	2749	2948
75°	1664	2759	2658
80°	1558	2389	1754
85°	1416	1476	1325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.8	2.9
10°-20°	401.0	8.4
20°-30°	611.4	12.8
30°-40°	749.9	15.7
40°-50°	813.3	17.1
50°-60°	802.8	16.8
60°-70°	692.9	14.5
70°-80°	444.2	9.3
80°-90°	111.7	2.3
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°	1152.2	24.2
0°-40°	1902.1	39.9
0°-60°	3518.2	73.8
0°-90°	4766.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4766.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1478	1478	1478	1478	1478	
5°	1476	1473	1462	1473	1474	140
15°	1416	1416	1413	1428	1432	400
25°	1305	1308	1320	1346	1354	601
35°	1145	1157	1193	1238	1253	716
45°	950	981	1051	1125	1156	732
55°	732	796	905	1003	1044	655
65°	504	612	732	804	823	500
75°	281	420	466	460	449	298
85°	81	125	84	77	75	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1477.9	1477.9	1477.9	1477.9	1477.9
2.5°	1481.3	1477.9	1467.6	1477.9	1477.9
5°	1476.2	1472.8	1462.5	1472.8	1474.5
7.5°	1465.9	1464.2	1455.6	1465.9	1467.6
10°	1453.9	1452.2	1443.6	1455.6	1457.3
12.5°	1436.8	1435.1	1431.6	1443.6	1443.6
15°	1416.2	1416.2	1412.8	1428.2	1431.6
17.5°	1392.2	1393.9	1393.9	1411.1	1414.5
20°	1366.5	1368.2	1371.6	1390.5	1395.6
22.5°	1339.0	1339.0	1347.6	1369.9	1376.8
25°	1304.8	1308.2	1320.2	1345.9	1354.5
27.5°	1267.0	1273.9	1291.0	1320.2	1330.5
30°	1229.3	1237.9	1260.2	1292.7	1304.8
32.5°	1188.2	1198.5	1229.3	1265.3	1277.3
35°	1145.3	1157.3	1193.3	1237.9	1253.3
37.5°	1099.0	1114.4	1159.0	1210.5	1231.0
40°	1051.0	1071.6	1123.0	1181.3	1205.3
42.5°	999.6	1027.0	1087.0	1153.9	1183.0
45°	949.8	980.7	1051.0	1124.7	1155.6
47.5°	896.7	936.1	1015.0	1095.6	1129.9
50°	841.8	886.4	980.7	1068.1	1105.9
52.5°	788.7	841.8	943.0	1037.3	1076.7
55°	732.1	795.5	905.3	1003.0	1044.1
57.5°	677.2	751.0	867.5	965.3	1003.0
60°	618.9	703.0	824.7	920.7	955.0
62.5°	562.4	660.1	780.1	865.8	893.3
65°	504.1	612.1	732.1	804.1	823.0
67.5°	449.2	567.5	675.5	732.1	744.1
70°	392.6	521.2	613.8	654.9	658.4
72.5°	336.0	469.8	546.9	557.2	557.2
75°	281.2	420.1	466.3	459.5	449.2
77.5°	229.7	358.3	377.2	348.0	325.8
80°	176.6	294.9	270.9	219.5	198.9
82.5°	126.9	219.5	159.5	125.2	118.3
85°	80.6	125.2	84.0	77.2	75.4
87.5°	37.7	46.3	37.7	41.1	41.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)