

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: P189675

Luminaire Tested: **BRG-WG-2L40-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189675
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-2L40-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND
RECTANGULAR PERF INLAY
LIGHT LEVEL 2 (820 mA)
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

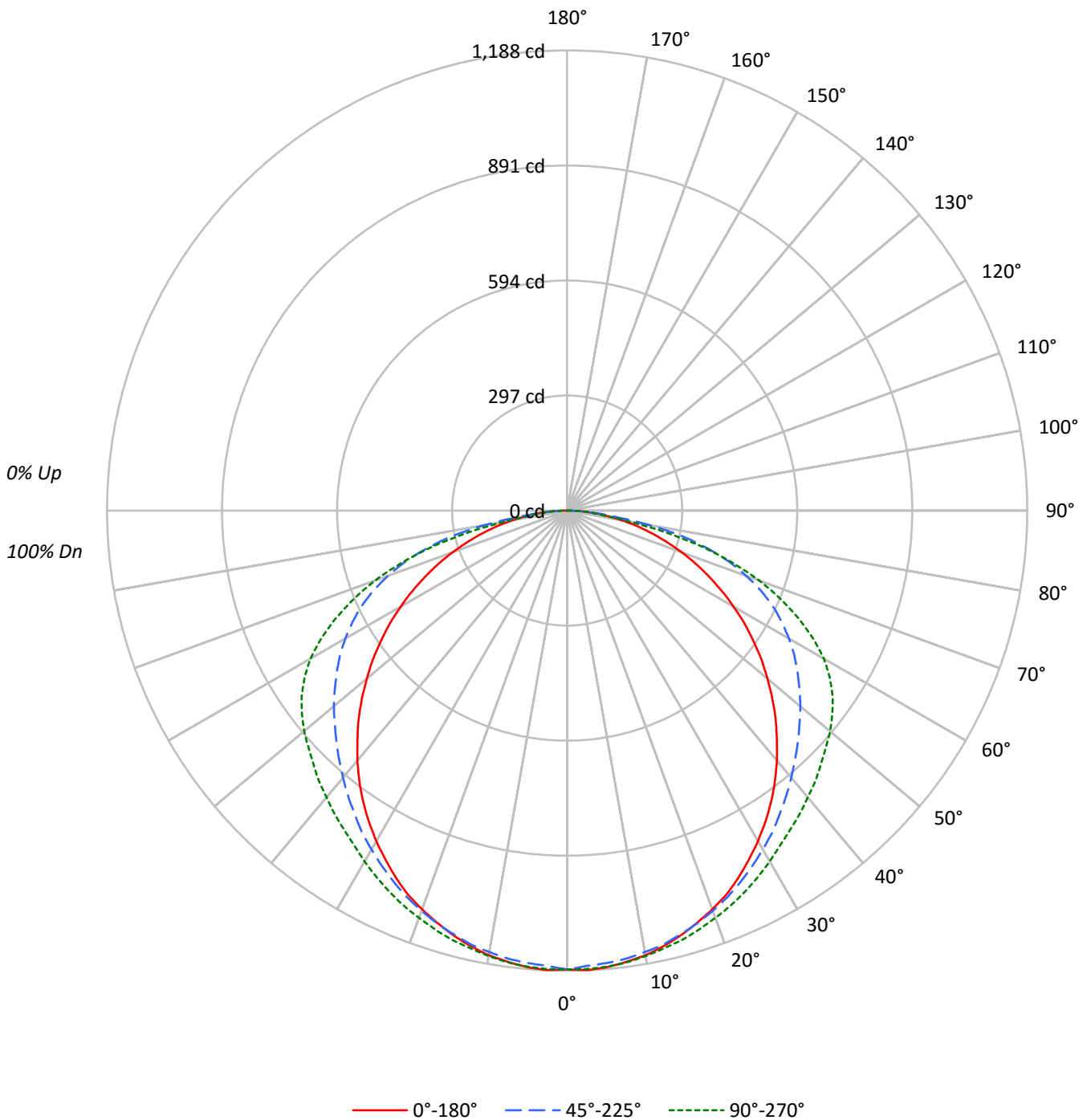
Lumens per Lamp: N/A
Luminaire Lumens: 3821.2 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 38.5
Input Voltage (V): NR
Input Current (Ain): 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°	1815	1815	1815
5°	1819	1803	1817
10°	1813	1800	1817
15°	1800	1796	1820
20°	1785	1792	1824
25°	1768	1788	1835
30°	1743	1787	1850
35°	1717	1789	1879
40°	1684	1800	1932
45°	1649	1825	2006
50°	1608	1873	2112
55°	1567	1938	2235
60°	1520	2025	2345
65°	1465	2127	2391
70°	1409	2203	2364
75°	1334	2212	2131
80°	1249	1916	1406
85°	1135	1183	1063



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	2.9
10°-20°	321.4	8.4
20°-30°	490.1	12.8
30°-40°	601.2	15.7
40°-50°	651.9	17.1
50°-60°	643.5	16.8
60°-70°	555.5	14.5
70°-80°	356.1	9.3
80°-90°	89.5	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°	923.6	24.2
0°-40°	1524.7	39.9
0°-60°	2820.2	73.8
0°-90°	3821.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3821.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1185	1185	1185	1185	1185	
5°	1183	1181	1172	1181	1182	112
15°	1135	1135	1132	1145	1148	320
25°	1046	1049	1058	1079	1086	482
35°	918	928	957	992	1005	574
45°	761	786	842	902	926	587
55°	587	638	726	804	837	525
65°	404	491	587	645	660	401
75°	225	337	374	368	360	239
85°	65	100	67	62	60	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1184.7	1184.7	1184.7	1184.7	1184.7
2.5°	1187.5	1184.7	1176.5	1184.7	1184.7
5°	1183.3	1180.6	1172.4	1180.6	1182.0
7.5°	1175.1	1173.7	1166.9	1175.1	1176.5
10°	1165.5	1164.1	1157.2	1166.9	1168.2
12.5°	1151.7	1150.4	1147.6	1157.2	1157.2
15°	1135.2	1135.2	1132.5	1144.9	1147.6
17.5°	1116.0	1117.4	1117.4	1131.1	1133.9
20°	1095.4	1096.8	1099.5	1114.6	1118.8
22.5°	1073.4	1073.4	1080.3	1098.1	1103.6
25°	1045.9	1048.7	1058.3	1078.9	1085.8
27.5°	1015.7	1021.2	1034.9	1058.3	1066.5
30°	985.4	992.3	1010.2	1036.3	1045.9
32.5°	952.5	960.7	985.4	1014.3	1023.9
35°	918.1	927.7	956.6	992.3	1004.7
37.5°	881.0	893.4	929.1	970.3	986.8
40°	842.5	859.0	900.2	947.0	966.2
42.5°	801.3	823.3	871.4	925.0	948.3
45°	761.4	786.2	842.5	901.6	926.3
47.5°	718.8	750.4	813.6	878.2	905.7
50°	674.8	710.6	786.2	856.2	886.5
52.5°	632.2	674.8	755.9	831.5	863.1
55°	586.9	637.7	725.7	804.0	837.0
57.5°	542.9	602.0	695.4	773.8	804.0
60°	496.2	563.5	661.1	738.0	765.5
62.5°	450.8	529.1	625.3	694.1	716.1
65°	404.1	490.7	586.9	644.6	659.7
67.5°	360.1	454.9	541.5	586.9	596.5
70°	314.7	417.8	492.0	525.0	527.8
72.5°	269.4	376.6	438.4	446.7	446.7
75°	225.4	336.7	373.8	368.3	360.1
77.5°	184.2	287.2	302.4	279.0	261.1
80°	141.6	236.4	217.2	175.9	159.4
82.5°	101.7	175.9	127.8	100.3	94.8
85°	64.6	100.3	67.3	61.8	60.5
87.5°	30.2	37.1	30.2	33.0	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)