

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: P189661

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34869)
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-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE
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: 5282.9 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.37 / 1.48
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

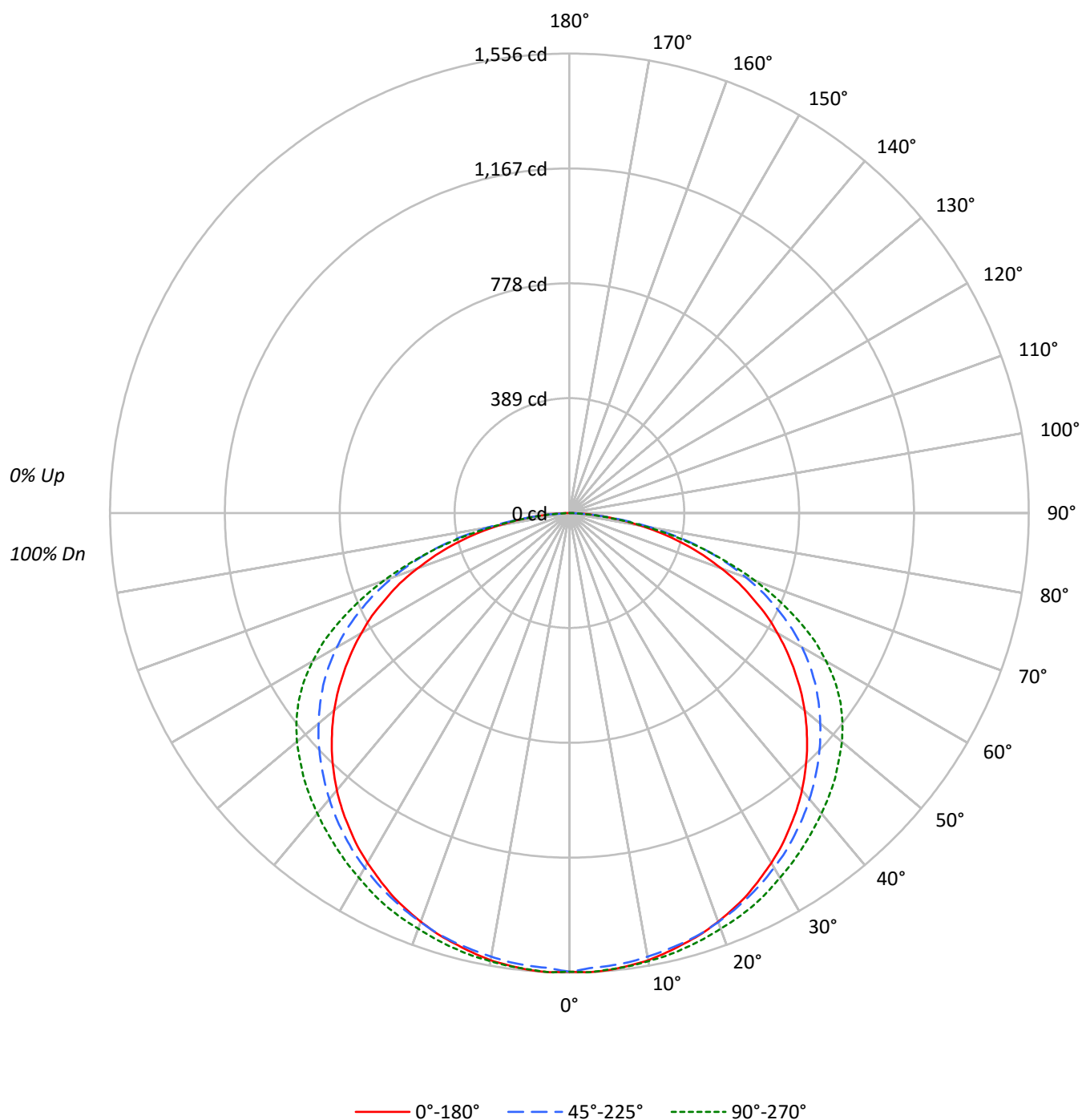
Input Watts (W): 47.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	103	98	94	105	100	96	92	96	93	89		92	89	87		82
2	97	88	81	75	95	87	80	74	83	77	72		80	75	71		67
3	88	77	68	61	86	75	67	61	72	65	60		69	63	58		55
4	80	68	58	51	78	66	58	51	64	56	50		61	55	49		46
5	74	60	51	44	71	59	50	43	57	49	43		55	48	42		40
6	68	54	44	38	66	53	44	37	51	43	37		49	42	37		34
7	63	49	39	33	61	48	39	33	46	38	33		45	38	32		30
8	58	44	35	29	57	43	35	29	42	34	29		41	34	29		27
9	54	40	32	26	53	40	32	26	39	31	26		37	31	26		24
10	51	37	29	24	50	37	29	24	36	28	23		35	28	23		21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2379	2379	2379
5°	2388	2367	2385
10°	2391	2373	2397
15°	2392	2386	2416
20°	2400	2403	2442
25°	2410	2425	2483
30°	2419	2453	2522
35°	2433	2487	2580
40°	2450	2529	2656
45°	2465	2580	2755
50°	2479	2643	2871
55°	2486	2719	2994
60°	2494	2788	3077
65°	2485	2833	3087
70°	2449	2848	3001
75°	2364	2800	2770
80°	2162	2449	2268
85°	1717	1627	1476



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	2.8
10°-20°	427.6	8.1
20°-30°	665.5	12.6
30°-40°	837.0	15.8
40°-50°	925.2	17.5
50°-60°	912.5	17.3
60°-70°	767.4	14.5
70°-80°	479.3	9.1
80°-90°	121.1	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°	1240.4	23.5
0°-40°	2077.4	39.3
0°-60°	3915.0	74.1
0°-90°	5282.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5282.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1553	1553	1553	1553	1553	
5°	1553	1550	1539	1551	1551	148
15°	1508	1508	1505	1520	1524	426
25°	1426	1426	1435	1460	1469	657
35°	1301	1308	1330	1366	1380	815
45°	1138	1152	1191	1246	1272	878
55°	931	956	1018	1087	1121	832
65°	686	728	782	835	852	679
75°	399	459	473	466	468	420
85°	98	115	93	86	84	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1553.0	1553.0	1553.0	1553.0	1553.0
2.5°	1556.5	1554.7	1542.7	1554.7	1556.5
5°	1553.0	1549.6	1539.3	1551.3	1551.3
7.5°	1546.2	1542.7	1534.2	1546.2	1547.9
10°	1537.6	1534.2	1525.6	1541.0	1541.0
12.5°	1523.9	1522.2	1515.3	1530.7	1534.2
15°	1508.5	1508.5	1505.0	1520.5	1523.9
17.5°	1493.0	1491.3	1491.3	1510.2	1511.9
20°	1472.5	1472.5	1474.2	1494.7	1498.2
22.5°	1450.2	1450.2	1455.3	1479.3	1484.5
25°	1426.2	1426.2	1434.7	1460.5	1469.0
27.5°	1397.0	1400.5	1412.5	1439.9	1448.5
30°	1367.9	1371.3	1386.8	1415.9	1426.2
32.5°	1337.0	1342.2	1361.0	1391.9	1403.9
35°	1301.0	1307.9	1330.2	1366.2	1379.9
37.5°	1265.0	1270.2	1299.3	1338.8	1354.2
40°	1225.6	1232.5	1265.0	1309.6	1328.5
42.5°	1182.8	1194.8	1229.0	1278.8	1301.0
45°	1138.2	1151.9	1191.3	1246.2	1271.9
47.5°	1090.2	1107.3	1151.9	1211.9	1237.6
50°	1040.5	1057.6	1109.1	1174.2	1205.1
52.5°	987.4	1009.6	1064.5	1133.1	1165.6
55°	930.8	956.5	1018.2	1086.8	1121.1
57.5°	874.2	906.8	966.8	1035.4	1067.9
60°	814.2	846.8	910.2	975.4	1004.5
62.5°	754.2	786.8	850.2	908.5	935.9
65°	685.7	728.5	781.7	834.8	851.9
67.5°	622.2	665.1	713.1	750.8	762.8
70°	546.8	598.2	636.0	661.7	670.2
72.5°	474.8	529.7	557.1	562.2	569.1
75°	399.4	459.4	473.1	466.3	468.0
77.5°	324.0	382.3	378.8	363.4	365.1
80°	245.1	298.3	277.7	264.0	257.1
82.5°	168.0	212.6	181.7	164.6	162.8
85°	97.7	114.8	92.6	85.7	84.0
87.5°	39.4	44.6	30.9	22.3	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)