

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: P189519

Luminaire Tested: **BRG-WS-6L40-LD2-UNV-22-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189519  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34939)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: BRG-WS-6L40-LD2-UNV-22-STD  
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 6 (975 mA)  
Light Source: (168) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

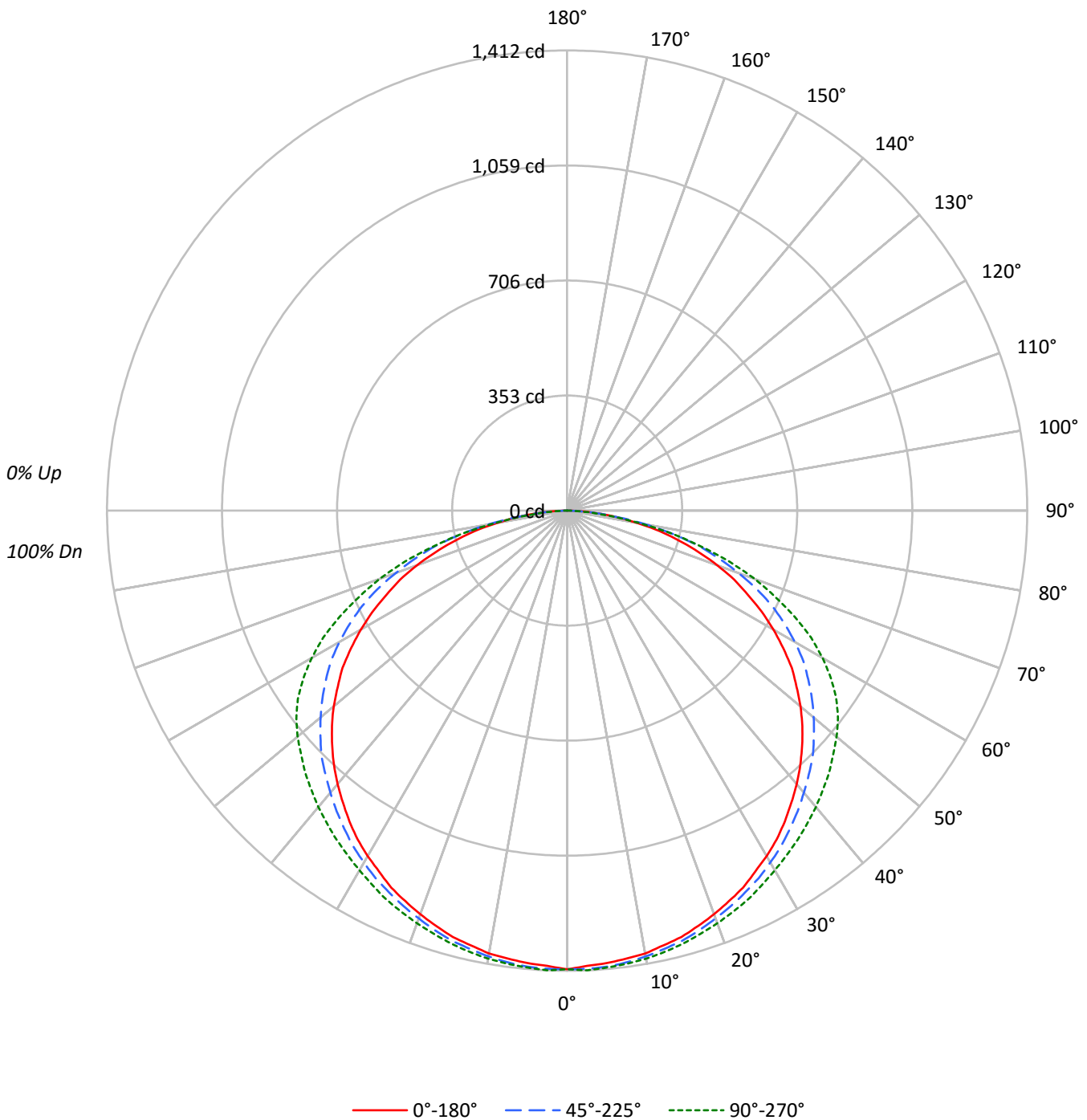
Lumens per Lamp: N/A  
Luminaire Lumens: 4718.2 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.36 / 1.47  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 45.7  
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	89	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	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	71	59	50	43	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	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	24	35	28	23	34	28	23	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4507	4507	4507
5°	4480	4517	4524
10°	4487	4517	4540
15°	4491	4530	4560
20°	4492	4539	4593
25°	4512	4568	4649
30°	4526	4611	4713
35°	4552	4660	4821
40°	4581	4724	4964
45°	4620	4827	5149
50°	4659	4922	5379
55°	4697	5042	5631
60°	4683	5168	5799
65°	4638	5263	5836
70°	4593	5237	5730
75°	4396	5162	5248
80°	4017	4482	4227
85°	3285	3200	2778



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.4	2.8
10°-20°	385.6	8.2
20°-30°	597.1	12.7
30°-40°	748.6	15.9
40°-50°	826.5	17.5
50°-60°	814.7	17.3
60°-70°	683.3	14.5
70°-80°	423.1	9.0
80°-90°	105.8	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°	1116.1	23.7
0°-40°	1864.8	39.5
0°-60°	3506.0	74.3
0°-90°	4718.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4718.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1407	1407	1407	1407	1407	
5°	1394	1398	1405	1407	1407	133
15°	1355	1357	1366	1373	1375	382
25°	1277	1279	1293	1309	1316	588
35°	1164	1169	1192	1220	1233	729
45°	1020	1029	1066	1109	1137	787
55°	841	853	903	970	1009	749
65°	612	642	694	747	770	607
75°	355	392	417	417	424	375
85°	89	101	87	76	76	105
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1407.4	1407.4	1407.4	1407.4	1407.4
2.5°	1398.3	1402.8	1407.4	1412.0	1412.0
5°	1393.7	1398.3	1405.1	1407.4	1407.4
7.5°	1386.8	1391.4	1398.3	1400.5	1402.8
10°	1379.9	1382.2	1389.1	1393.7	1396.0
12.5°	1366.2	1370.7	1377.6	1384.5	1386.8
15°	1354.7	1357.0	1366.2	1373.0	1375.3
17.5°	1336.4	1340.9	1350.1	1359.3	1361.6
20°	1318.0	1320.3	1331.8	1343.2	1347.8
22.5°	1297.4	1302.0	1313.4	1327.2	1331.8
25°	1276.8	1279.1	1292.8	1308.9	1315.7
27.5°	1249.3	1256.1	1272.2	1285.9	1295.1
30°	1224.0	1228.6	1247.0	1265.3	1274.5
32.5°	1196.5	1201.1	1221.8	1244.7	1253.8
35°	1164.4	1169.0	1192.0	1219.5	1233.2
37.5°	1130.1	1136.9	1162.2	1194.2	1210.3
40°	1095.7	1102.6	1130.1	1169.0	1187.4
42.5°	1059.0	1065.9	1098.0	1141.5	1162.2
45°	1020.0	1029.2	1065.9	1109.4	1136.9
47.5°	978.8	990.2	1026.9	1081.9	1107.1
50°	935.2	944.4	987.9	1047.5	1079.6
52.5°	887.1	900.8	946.7	1013.2	1047.5
55°	841.2	852.7	903.1	969.6	1008.6
57.5°	786.2	804.6	859.6	923.8	960.4
60°	731.2	751.8	806.9	871.0	905.4
62.5°	673.9	699.1	751.8	813.7	843.5
65°	612.0	641.8	694.5	747.3	770.2
67.5°	554.7	582.2	630.4	671.6	690.0
70°	490.5	520.3	559.3	593.7	612.0
72.5°	421.8	458.4	488.2	506.6	522.6
75°	355.3	392.0	417.2	417.2	424.1
77.5°	291.1	318.6	332.4	327.8	332.4
80°	217.8	245.3	243.0	233.8	229.2
82.5°	151.3	169.6	160.5	146.7	142.1
85°	89.4	100.9	87.1	75.6	75.6
87.5°	36.7	39.0	27.5	20.6	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)