

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: P189577

Luminaire Tested: **BRG-WS-4L30-LD2-UNV-14-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189577
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-4L30-LD2-UNV-14-STD
Description: BRIDGE 1x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 4 (1100 mA)
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

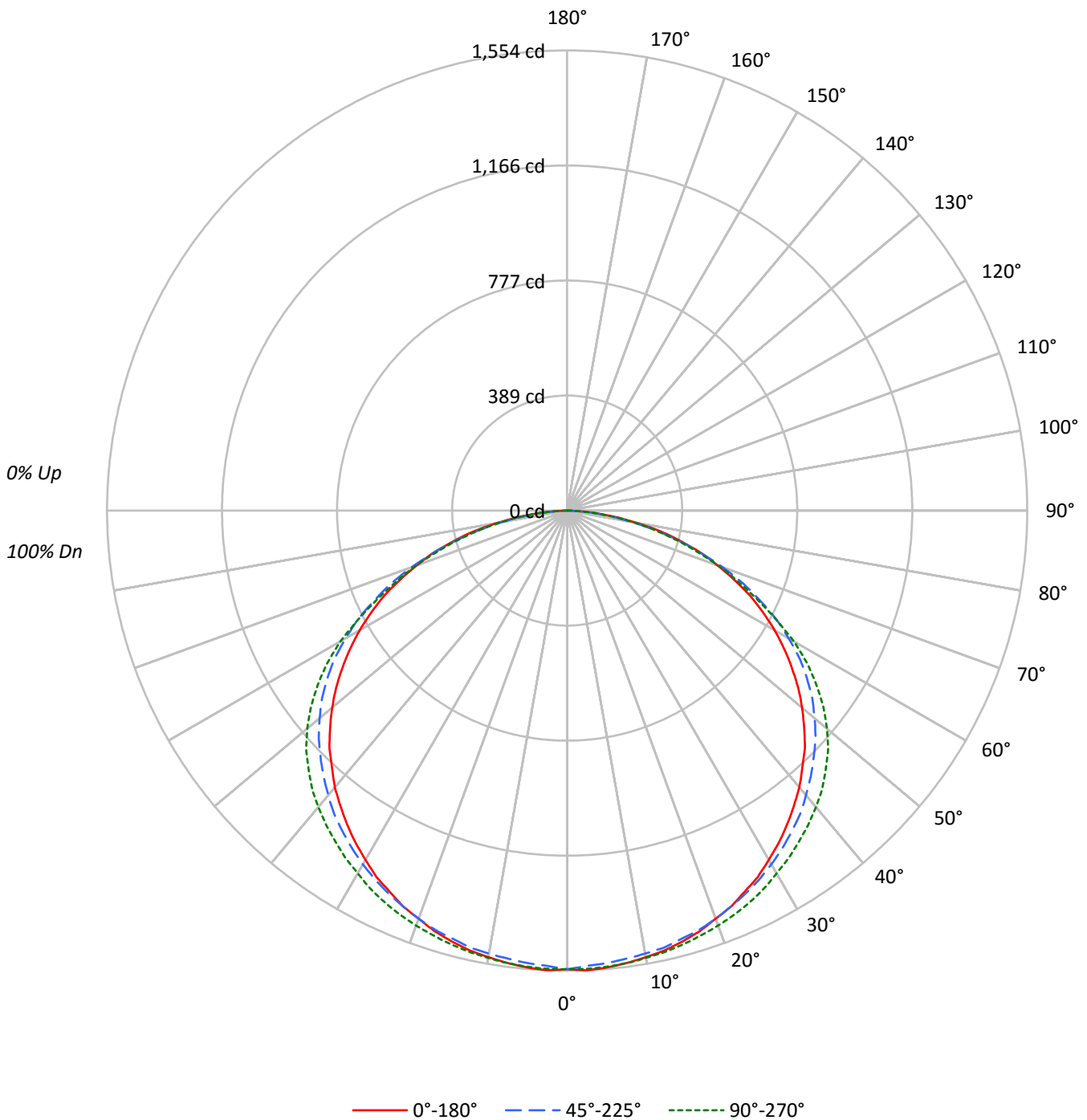
Lumens per Lamp: N/A
Luminaire Lumens: 5076.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.36 / 1.47
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 50.2
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				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°	4745	4745	4745
5°	4763	4717	4755
10°	4764	4725	4772
15°	4778	4746	4809
20°	4781	4781	4862
25°	4797	4823	4932
30°	4818	4880	5003
35°	4842	4945	5103
40°	4879	5019	5228
45°	4919	5103	5351
50°	4937	5198	5459
55°	4948	5280	5493
60°	4958	5294	5416
65°	4945	5217	5126
70°	4840	4996	4862
75°	4686	4568	4480
80°	4218	3909	3953
85°	3325	2977	2801



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	2.9
10°-20°	426.0	8.4
20°-30°	662.3	13.0
30°-40°	831.3	16.4
40°-50°	912.0	18.0
50°-60°	877.5	17.3
60°-70°	699.9	13.8
70°-80°	415.2	8.2
80°-90°	104.9	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°	1235.2	24.3
0°-40°	2066.5	40.7
0°-60°	3856.0	76.0
0°-90°	5076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5076.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1549	1549	1549	1549	1549	
5°	1549	1546	1534	1546	1546	147
15°	1507	1504	1497	1514	1516	425
25°	1419	1422	1427	1452	1459	655
35°	1295	1300	1322	1355	1365	811
45°	1136	1146	1178	1220	1235	874
55°	926	949	989	1018	1028	828
65°	682	710	720	710	707	672
75°	396	426	386	378	378	417
85°	95	90	85	80	80	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1548.9	1548.9	1548.9	1548.9	1548.9
2.5°	1553.9	1551.4	1538.9	1551.4	1548.9
5°	1548.9	1546.4	1534.0	1546.4	1546.4
7.5°	1541.4	1538.9	1526.5	1541.4	1541.4
10°	1531.5	1529.0	1519.0	1534.0	1534.0
12.5°	1521.5	1519.0	1511.5	1526.5	1526.5
15°	1506.6	1504.1	1496.6	1514.0	1516.5
17.5°	1489.1	1486.6	1484.2	1504.1	1504.1
20°	1466.7	1466.7	1466.7	1489.1	1491.6
22.5°	1446.8	1446.8	1446.8	1471.7	1476.7
25°	1419.4	1421.9	1426.9	1451.8	1459.3
27.5°	1394.5	1394.5	1404.5	1431.9	1439.3
30°	1362.1	1367.1	1379.6	1407.0	1414.4
32.5°	1329.8	1337.2	1352.2	1382.1	1392.0
35°	1294.9	1299.9	1322.3	1354.7	1364.6
37.5°	1257.5	1265.0	1292.4	1327.3	1337.2
40°	1220.2	1227.7	1255.1	1294.9	1307.4
42.5°	1175.4	1187.8	1217.7	1257.5	1275.0
45°	1135.5	1145.5	1177.9	1220.2	1235.1
47.5°	1085.7	1100.7	1138.0	1177.9	1195.3
50°	1035.9	1053.4	1090.7	1133.0	1145.5
52.5°	983.6	1003.5	1043.4	1078.3	1090.7
55°	926.4	948.8	988.6	1018.5	1028.5
57.5°	869.1	896.5	931.3	951.3	961.2
60°	809.3	834.2	864.1	879.0	884.0
62.5°	747.1	772.0	796.9	794.4	794.4
65°	682.3	709.7	719.7	709.7	707.2
67.5°	610.1	642.5	642.5	625.0	622.5
70°	540.4	572.7	557.8	540.4	542.9
72.5°	473.1	503.0	470.6	455.7	458.2
75°	395.9	425.8	386.0	378.5	378.5
77.5°	321.2	341.2	303.8	298.8	301.3
80°	239.1	256.5	221.6	219.1	224.1
82.5°	161.9	166.8	146.9	149.4	154.4
85°	94.6	89.6	84.7	79.7	79.7
87.5°	34.9	34.9	27.4	24.9	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)