

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: P189607

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34884)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WD-4L30-LD2-UNV-14-STD
Description: BRIDGE 1x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY
LIGHT LEVEL 4 (1100 mA)
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

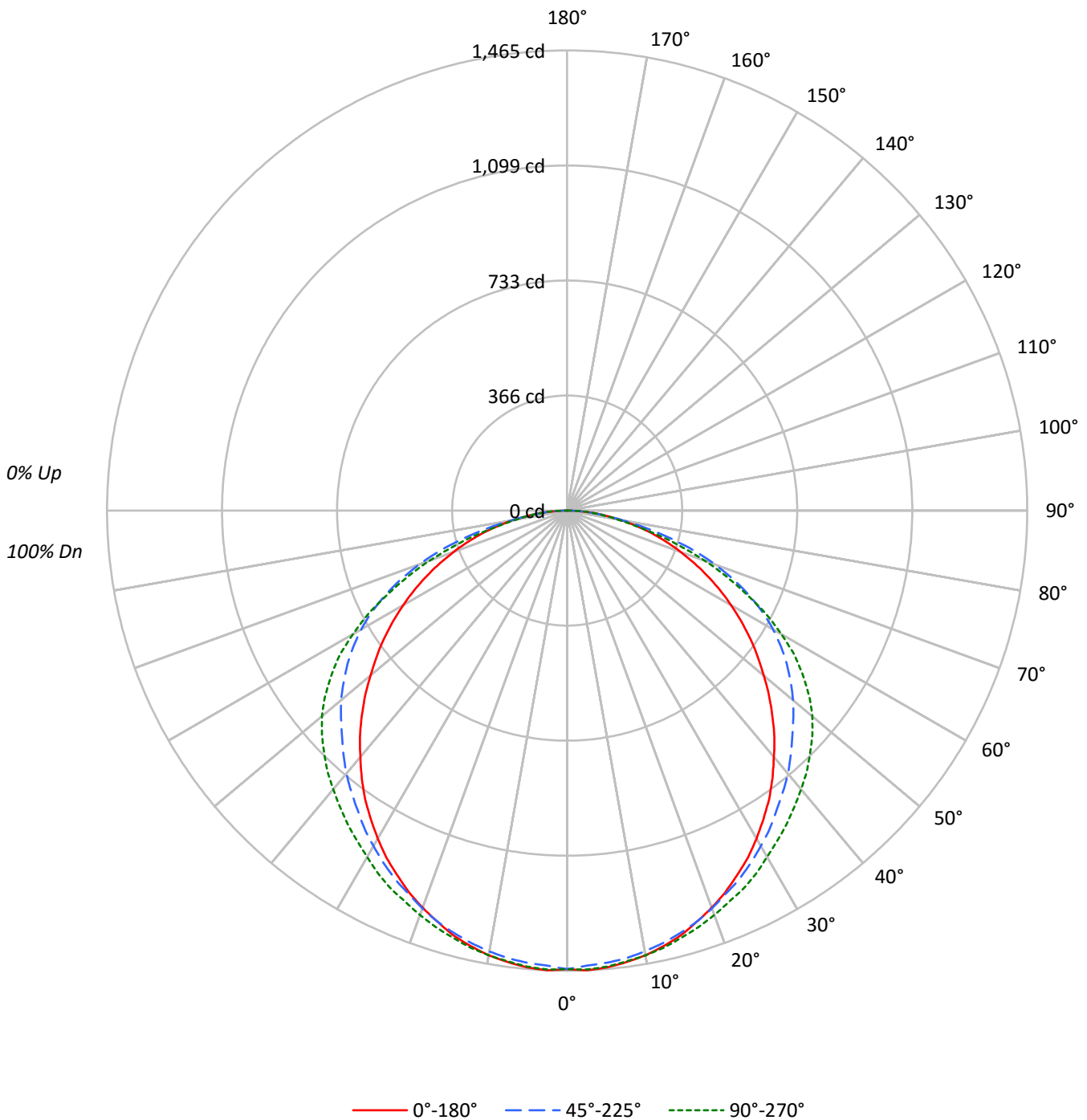
Lumens per Lamp: N/A
Luminaire Lumens: 4428.4 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.41
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')
CIE Type: Direct

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	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48
5	75	61	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4472	4472	4472
5°	4489	4443	4481
10°	4471	4432	4471
15°	4440	4416	4464
20°	4385	4394	4467
25°	4328	4379	4488
30°	4265	4362	4503
35°	4192	4351	4556
40°	4094	4373	4633
45°	4004	4393	4738
50°	3894	4476	4856
55°	3805	4564	4896
60°	3694	4640	4823
65°	3576	4641	4569
70°	3437	4485	4173
75°	3302	4010	3539
80°	3077	3209	2856
85°	2801	2625	2713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.2	3.1
10°-20°	395.2	8.9
20°-30°	599.8	13.5
30°-40°	730.9	16.5
40°-50°	782.5	17.7
50°-60°	746.1	16.8
60°-70°	597.2	13.5
70°-80°	345.8	7.8
80°-90°	92.8	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°	1133.1	25.6
0°-40°	1864.1	42.1
0°-60°	3392.7	76.6
0°-90°	4428.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4428.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1460	1460	1460	1460	1460	
5°	1460	1457	1445	1457	1457	139
15°	1400	1398	1393	1408	1408	394
25°	1280	1286	1296	1320	1328	590
35°	1121	1131	1163	1203	1218	700
45°	924	954	1014	1076	1094	713
55°	712	770	854	907	917	636
65°	493	580	640	638	630	488
75°	279	371	339	309	299	294
85°	80	85	75	77	77	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1459.9	1459.9	1459.9	1459.9	1459.9
2.5°	1464.9	1462.4	1449.9	1459.9	1462.4
5°	1459.9	1457.4	1445.0	1457.4	1457.4
7.5°	1449.9	1447.4	1437.5	1449.9	1447.4
10°	1437.5	1435.0	1425.0	1437.5	1437.5
12.5°	1420.0	1417.6	1410.1	1425.0	1425.0
15°	1400.1	1397.6	1392.6	1407.6	1407.6
17.5°	1372.7	1372.7	1372.7	1387.7	1390.1
20°	1345.3	1347.8	1347.8	1367.7	1370.2
22.5°	1315.4	1317.9	1320.4	1345.3	1347.8
25°	1280.5	1285.5	1295.5	1320.4	1327.9
27.5°	1245.7	1250.6	1265.6	1293.0	1303.0
30°	1205.8	1210.8	1233.2	1263.1	1273.1
32.5°	1163.4	1173.4	1200.8	1233.2	1245.7
35°	1121.1	1131.1	1163.4	1203.3	1218.2
37.5°	1073.8	1088.7	1128.6	1173.4	1188.4
40°	1023.9	1046.3	1093.7	1143.5	1158.5
42.5°	976.6	999.0	1053.8	1108.6	1128.6
45°	924.3	954.2	1014.0	1076.2	1093.7
47.5°	872.0	906.8	976.6	1038.9	1058.8
50°	817.1	862.0	939.2	999.0	1018.9
52.5°	764.8	814.7	896.9	954.2	971.6
55°	712.5	769.8	854.5	906.8	916.8
57.5°	657.7	722.5	807.2	852.0	859.5
60°	602.9	675.1	757.4	787.3	787.3
62.5°	548.1	627.8	702.5	717.5	715.0
65°	493.3	580.5	640.3	637.8	630.3
67.5°	438.5	533.1	573.0	555.6	548.1
70°	383.7	480.8	500.8	473.3	465.9
72.5°	331.3	431.0	423.5	391.1	378.7
75°	279.0	371.2	338.8	308.9	299.0
77.5°	224.2	311.4	259.1	229.2	219.2
80°	174.4	239.2	181.9	164.4	161.9
82.5°	124.6	157.0	119.6	117.1	117.1
85°	79.7	84.7	74.7	77.2	77.2
87.5°	34.9	37.4	39.9	42.4	42.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)