

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: P189667

Luminaire Tested: **BRG-WG-4L30-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189667
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-4L30-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND
RECTANGULAR PERF INLAY
LIGHT LEVEL 4 (1260 mA)
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

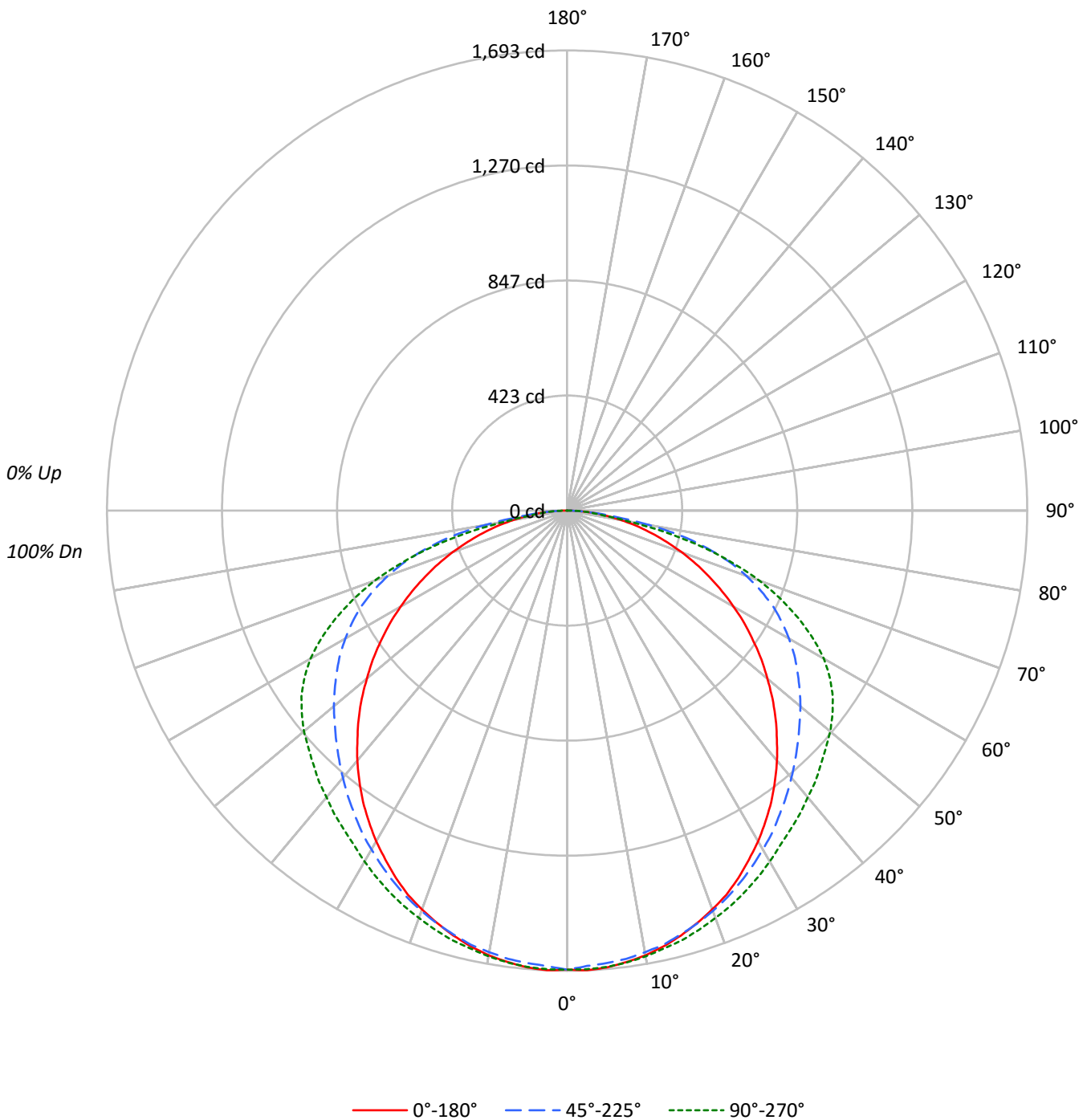
Lumens per Lamp: N/A
Luminaire Lumens: 5447.4 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84
2	97	88	81	75	95	87	80	74	83	77	72	80	75	71	76	73	69
3	88	77	68	61	86	75	67	61	72	65	60	69	64	59	67	62	58
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49
5	74	60	51	44	72	59	50	44	57	49	43	55	48	42	53	47	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37
7	63	49	40	33	61	48	39	33	46	39	33	45	38	33	43	37	32
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29
9	55	41	32	26	53	40	32	26	39	31	26	38	31	26	37	31	26
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2587	2587	2587
5°	2594	2570	2591
10°	2584	2566	2590
15°	2566	2560	2594
20°	2545	2555	2599
25°	2520	2549	2616
30°	2484	2547	2637
35°	2447	2550	2678
40°	2401	2566	2754
45°	2351	2601	2860
50°	2292	2670	3011
55°	2234	2762	3186
60°	2167	2887	3343
65°	2088	3032	3408
70°	2009	3141	3369
75°	1901	3154	3038
80°	1780	2731	2005
85°	1619	1687	1515



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	2.9
10°-20°	458.2	8.4
20°-30°	698.6	12.8
30°-40°	857.0	15.7
40°-50°	929.4	17.1
50°-60°	917.4	16.8
60°-70°	791.8	14.5
70°-80°	507.6	9.3
80°-90°	127.6	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°	1316.6	24.2
0°-40°	2173.6	39.9
0°-60°	4020.4	73.8
0°-90°	5447.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5447.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1689	1689	1689	1689	1689	
5°	1687	1683	1671	1683	1685	160
15°	1618	1618	1614	1632	1636	457
25°	1491	1495	1509	1538	1548	687
35°	1309	1322	1364	1415	1432	818
45°	1085	1121	1201	1285	1320	837
55°	837	909	1034	1146	1193	748
65°	576	700	837	919	940	572
75°	321	480	533	525	513	341
85°	92	143	96	88	86	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1688.9	1688.9	1688.9	1688.9	1688.9
2.5°	1692.8	1688.9	1677.1	1688.9	1688.9
5°	1686.9	1683.0	1671.3	1683.0	1685.0
7.5°	1675.2	1673.2	1663.4	1675.2	1677.1
10°	1661.5	1659.5	1649.7	1663.4	1665.4
12.5°	1641.9	1639.9	1636.0	1649.7	1649.7
15°	1618.4	1618.4	1614.4	1632.1	1636.0
17.5°	1590.9	1592.9	1592.9	1612.5	1616.4
20°	1561.5	1563.5	1567.4	1589.0	1594.8
22.5°	1530.2	1530.2	1540.0	1565.5	1573.3
25°	1491.0	1494.9	1508.6	1538.0	1547.8
27.5°	1447.9	1455.7	1475.3	1508.6	1520.4
30°	1404.8	1414.6	1440.1	1477.3	1491.0
32.5°	1357.8	1369.5	1404.8	1445.9	1459.7
35°	1308.8	1322.5	1363.6	1414.6	1432.2
37.5°	1255.9	1273.5	1324.5	1383.2	1406.8
40°	1201.0	1224.5	1283.3	1349.9	1377.4
42.5°	1142.3	1173.6	1242.2	1318.6	1351.9
45°	1085.4	1120.7	1201.0	1285.3	1320.5
47.5°	1024.7	1069.8	1159.9	1252.0	1291.2
50°	962.0	1012.9	1120.7	1220.6	1263.7
52.5°	901.3	962.0	1077.6	1185.4	1230.4
55°	836.6	909.1	1034.5	1146.2	1193.2
57.5°	773.9	858.2	991.4	1103.1	1146.2
60°	707.3	803.3	942.4	1052.1	1091.3
62.5°	642.6	754.3	891.5	989.4	1020.8
65°	576.0	699.5	836.6	918.9	940.4
67.5°	513.3	648.5	772.0	836.6	850.3
70°	448.7	595.6	701.4	748.4	752.4
72.5°	384.0	536.8	625.0	636.8	636.8
75°	321.3	480.0	532.9	525.1	513.3
77.5°	262.5	409.5	431.0	397.7	372.3
80°	201.8	337.0	309.6	250.8	227.3
82.5°	145.0	250.8	182.2	143.0	135.2
85°	92.1	143.0	96.0	88.2	86.2
87.5°	43.1	52.9	43.1	47.0	47.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)