

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: P189696

Luminaire Tested: **BRG-WN-3L30-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34876)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WN-3L30-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND NANO PRISM INLAY
LIGHT LEVEL 3 (1040 mA)
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

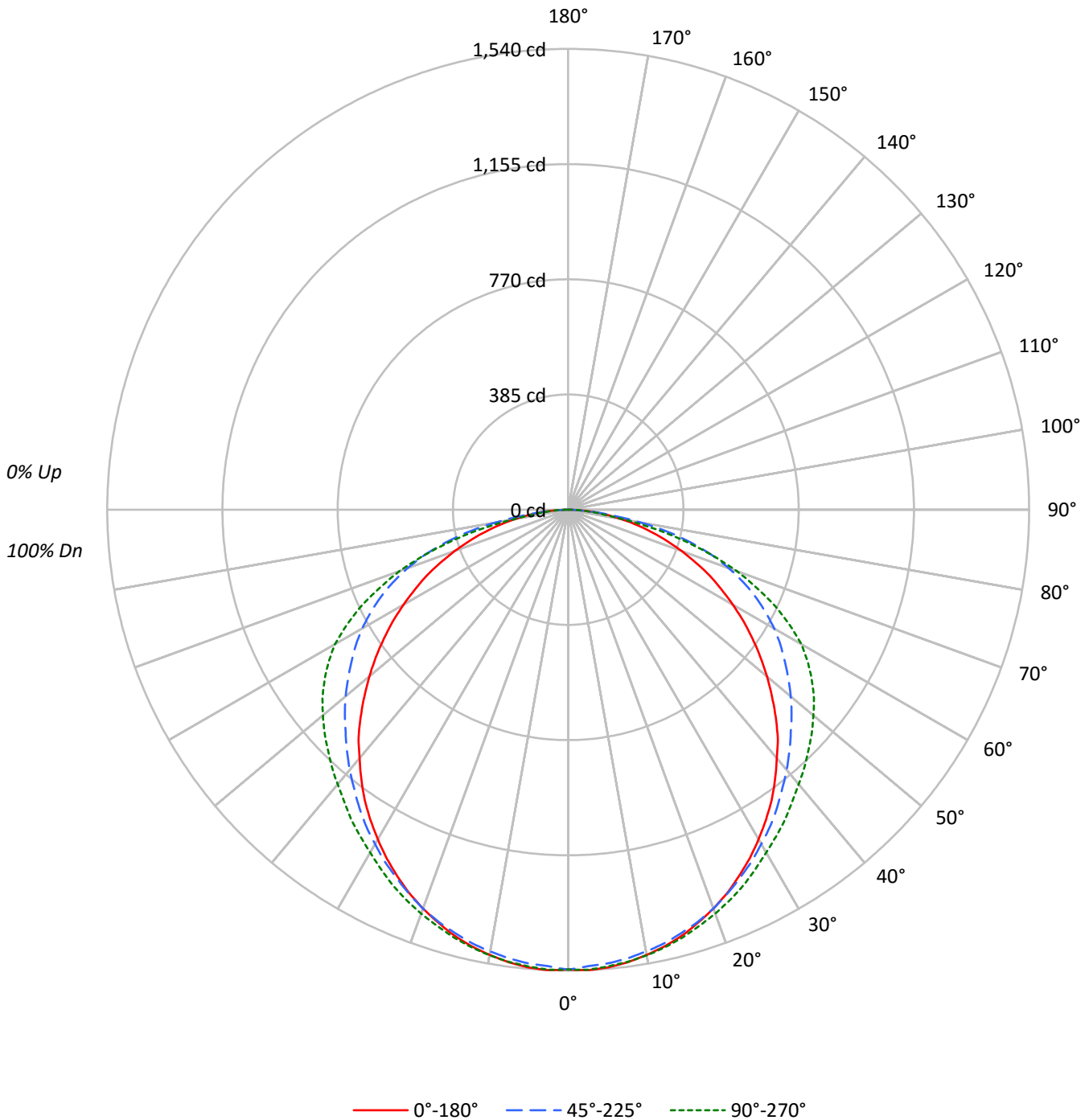
Lumens per Lamp: N/A
Luminaire Lumens: 4732.1 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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				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	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	49	42	38	35
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2354	2354	2354
5°	2360	2340	2355
10°	2349	2331	2352
15°	2335	2322	2346
20°	2312	2312	2341
25°	2283	2294	2341
30°	2250	2282	2340
35°	2215	2274	2363
40°	2168	2270	2395
45°	2124	2278	2459
50°	2066	2313	2549
55°	2008	2359	2654
60°	1946	2435	2757
65°	1890	2505	2767
70°	1805	2557	2682
75°	1704	2503	2376
80°	1596	2177	1655
85°	1446	1388	1186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	3.1
10°-20°	415.5	8.8
20°-30°	629.0	13.3
30°-40°	763.8	16.1
40°-50°	815.5	17.2
50°-60°	787.0	16.6
60°-70°	660.6	14.0
70°-80°	411.5	8.7
80°-90°	103.8	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°	1189.9	25.1
0°-40°	1953.6	41.3
0°-60°	3556.1	75.1
0°-90°	4732.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4732.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1535	1532	1522	1532	1532	146
15°	1473	1471	1464	1478	1479	415
25°	1351	1353	1358	1379	1386	622
35°	1185	1191	1216	1249	1264	740
45°	981	1002	1052	1111	1135	756
55°	752	800	884	963	994	673
65°	522	601	691	745	764	514
75°	288	393	423	413	402	305
85°	82	115	79	69	68	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1536.9	1536.9	1536.9	1536.9	1536.9
2.5°	1540.2	1536.9	1527.0	1536.9	1538.5
5°	1535.2	1531.9	1522.1	1531.9	1531.9
7.5°	1525.4	1522.1	1512.2	1523.7	1523.7
10°	1510.6	1508.9	1499.0	1512.2	1512.2
12.5°	1494.1	1492.5	1484.2	1497.4	1497.4
15°	1472.7	1471.1	1464.5	1477.6	1479.3
17.5°	1446.4	1446.4	1443.1	1456.3	1457.9
20°	1418.4	1418.4	1418.4	1434.9	1436.5
22.5°	1387.1	1385.5	1388.8	1406.9	1411.8
25°	1350.9	1352.6	1357.5	1378.9	1385.5
27.5°	1313.1	1316.4	1326.3	1349.3	1354.2
30°	1272.0	1276.9	1290.1	1316.4	1323.0
32.5°	1229.2	1235.8	1255.5	1281.8	1293.3
35°	1184.7	1191.3	1216.0	1248.9	1263.7
37.5°	1135.4	1145.3	1174.9	1216.0	1229.2
40°	1084.4	1099.2	1135.4	1179.8	1197.9
42.5°	1036.7	1051.5	1094.2	1145.3	1168.3
45°	980.7	1002.1	1051.5	1110.7	1135.4
47.5°	923.1	952.7	1012.0	1074.5	1104.1
50°	867.2	900.1	970.8	1039.9	1069.6
52.5°	809.6	852.4	926.4	1002.1	1035.0
55°	752.0	799.7	883.6	962.6	993.9
57.5°	694.4	753.6	840.8	918.2	949.4
60°	635.2	702.6	794.8	868.8	900.1
62.5°	577.6	651.6	743.8	811.2	834.3
65°	521.6	600.6	691.1	745.4	763.5
67.5°	460.7	551.2	633.5	674.6	681.2
70°	403.1	501.9	571.0	594.0	599.0
72.5°	343.9	450.9	501.9	505.2	501.9
75°	288.0	393.3	422.9	413.0	401.5
77.5°	233.7	334.0	340.6	309.4	297.8
80°	181.0	269.9	246.8	207.3	187.6
82.5°	128.3	199.1	153.0	121.8	113.5
85°	82.3	115.2	79.0	69.1	67.5
87.5°	37.8	42.8	32.9	29.6	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)