

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: P189651

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189651  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34869)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: BRG-WS-3L30-LD2-UNV-24-STD  
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 3 (1040 mA)  
Light Source: (308) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

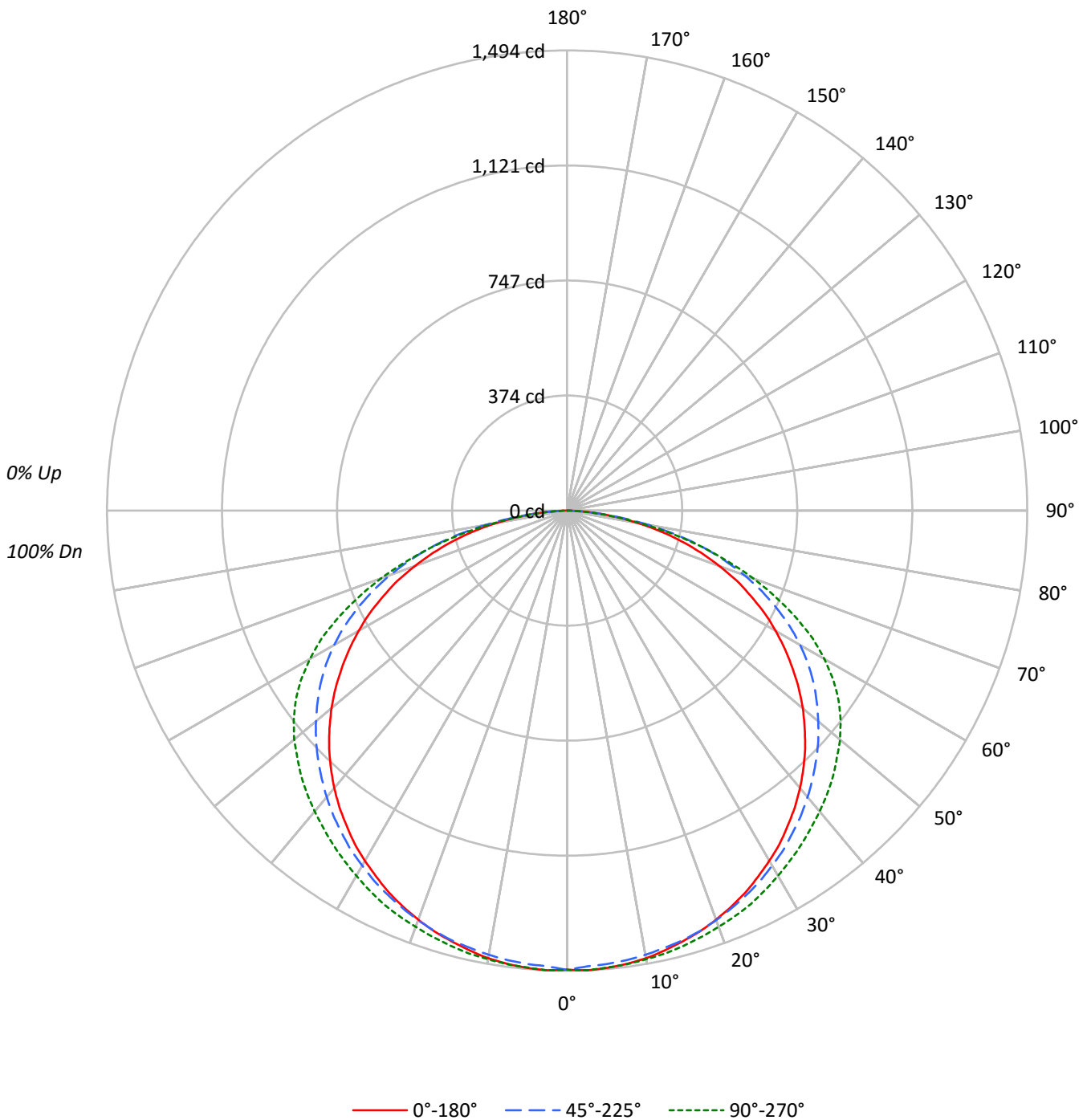
Lumens per Lamp: N/A  
Luminaire Lumens: 5071.0 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.37 / 1.48  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	88	81	75	95	87	80	74	83	77	72	80	75	71	76	73	69	67
3	88	77	68	61	86	75	67	61	72	65	60	69	63	58	67	62	57	55
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	46
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	48	41	36	34
7	63	49	39	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	43	35	29	42	34	29	41	34	29	40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26	37	31	26	36	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23	21

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

	0°	45°	90°
0°	2283	2283	2283
5°	2292	2272	2289
10°	2295	2278	2301
15°	2296	2291	2319
20°	2304	2306	2344
25°	2314	2327	2383
30°	2322	2354	2421
35°	2335	2387	2477
40°	2352	2428	2550
45°	2366	2477	2645
50°	2380	2537	2756
55°	2386	2610	2874
60°	2394	2676	2954
65°	2385	2719	2964
70°	2351	2733	2881
75°	2269	2687	2658
80°	2075	2351	2177
85°	1648	1562	1416



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.5	2.8
10°-20°	410.4	8.1
20°-30°	638.8	12.6
30°-40°	803.4	15.8
40°-50°	888.1	17.5
50°-60°	875.8	17.3
60°-70°	736.6	14.5
70°-80°	460.1	9.1
80°-90°	116.2	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°	1190.7	23.5
0°-40°	1994.1	39.3
0°-60°	3758.0	74.1
0°-90°	5071.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5071.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1491	1491	1491	1491	1491	
5°	1491	1487	1478	1489	1489	142
15°	1448	1448	1445	1460	1463	409
25°	1369	1369	1377	1402	1410	631
35°	1249	1255	1277	1311	1325	782
45°	1092	1106	1144	1196	1221	843
55°	894	918	977	1043	1076	799
65°	658	699	750	801	818	652
75°	383	441	454	448	449	404
85°	94	110	89	82	81	112
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1490.7	1490.7	1490.7	1490.7	1490.7
2.5°	1494.0	1492.4	1480.9	1492.4	1494.0
5°	1490.7	1487.4	1477.6	1489.1	1489.1
7.5°	1484.2	1480.9	1472.6	1484.2	1485.8
10°	1475.9	1472.6	1464.4	1479.2	1479.2
12.5°	1462.8	1461.1	1454.5	1469.3	1472.6
15°	1448.0	1448.0	1444.7	1459.5	1462.8
17.5°	1433.1	1431.5	1431.5	1449.6	1451.2
20°	1413.4	1413.4	1415.0	1434.8	1438.1
22.5°	1392.0	1392.0	1397.0	1420.0	1424.9
25°	1369.0	1369.0	1377.2	1401.9	1410.1
27.5°	1341.0	1344.3	1355.8	1382.1	1390.4
30°	1313.0	1316.3	1331.1	1359.1	1369.0
32.5°	1283.4	1288.4	1306.5	1336.1	1347.6
35°	1248.9	1255.4	1276.8	1311.4	1324.6
37.5°	1214.3	1219.2	1247.2	1285.1	1299.9
40°	1176.5	1183.0	1214.3	1257.1	1275.2
42.5°	1135.3	1146.8	1179.8	1227.5	1248.9
45°	1092.5	1105.7	1143.6	1196.2	1220.9
47.5°	1046.5	1062.9	1105.7	1163.3	1188.0
50°	998.8	1015.2	1064.6	1127.1	1156.7
52.5°	947.8	969.1	1021.8	1087.6	1118.9
55°	893.5	918.1	977.4	1043.2	1076.1
57.5°	839.2	870.4	928.0	993.8	1025.1
60°	781.6	812.8	873.7	936.2	964.2
62.5°	724.0	755.2	816.1	872.1	898.4
65°	658.2	699.3	750.3	801.3	817.8
67.5°	597.3	638.4	684.5	720.7	732.2
70°	524.9	574.2	610.4	635.1	643.4
72.5°	455.8	508.4	534.8	539.7	546.3
75°	383.4	441.0	454.1	447.6	449.2
77.5°	311.0	366.9	363.6	348.8	350.5
80°	235.3	286.3	266.6	253.4	246.8
82.5°	161.2	204.0	174.4	158.0	156.3
85°	93.8	110.2	88.9	82.3	80.6
87.5°	37.8	42.8	29.6	21.4	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)