

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: P189701

Luminaire Tested: **BRG-WN-3L35-LD2-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189701  
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-3L35-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) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

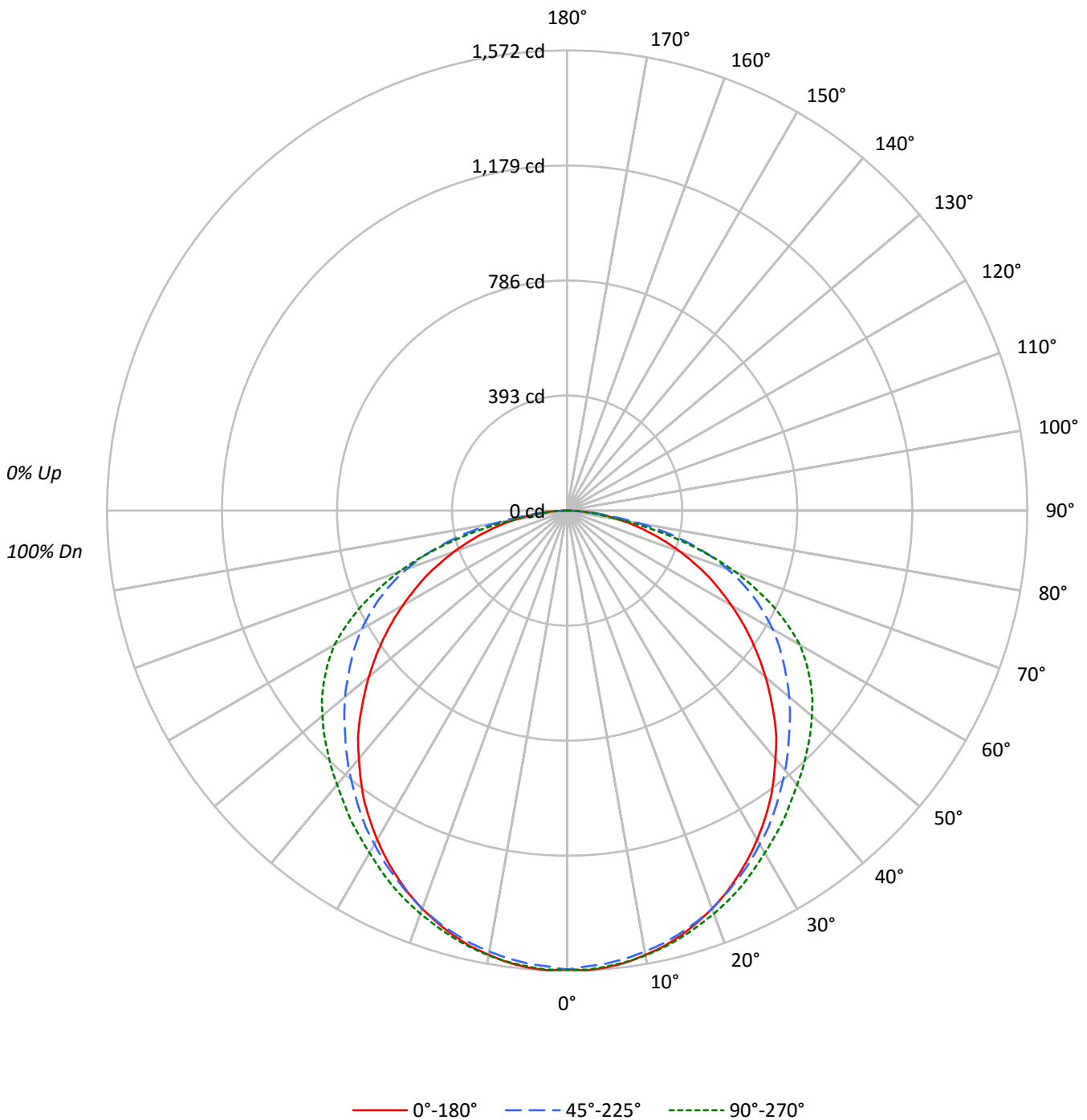
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4828.7 lumens  
Efficiency: N/A  
Efficacy: 102.3 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 (A<sub>in</sub>): 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°	2402	2402	2402
5°	2409	2388	2403
10°	2397	2379	2400
15°	2383	2370	2394
20°	2359	2359	2389
25°	2330	2341	2389
30°	2295	2328	2388
35°	2260	2320	2411
40°	2212	2317	2444
45°	2168	2324	2510
50°	2109	2361	2601
55°	2049	2408	2708
60°	1985	2484	2814
65°	1929	2556	2824
70°	1842	2609	2737
75°	1739	2554	2425
80°	1629	2222	1688
85°	1476	1416	1209



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.3	3.1
10°-20°	424.0	8.8
20°-30°	641.9	13.3
30°-40°	779.3	16.1
40°-50°	832.2	17.2
50°-60°	803.0	16.6
60°-70°	674.1	14.0
70°-80°	420.0	8.7
80°-90°	105.9	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°	1214.2	25.1
0°-40°	1993.5	41.3
0°-60°	3628.7	75.1
0°-90°	4828.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4828.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1568	1568	1568	1568	1568	
5°	1567	1563	1553	1563	1563	149
15°	1503	1501	1494	1508	1510	424
25°	1378	1380	1385	1407	1414	635
35°	1209	1216	1241	1274	1290	755
45°	1001	1023	1073	1133	1159	771
55°	767	816	902	982	1014	686
65°	532	613	705	761	779	525
75°	294	401	432	422	410	312
85°	84	118	81	70	69	94
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1568.3	1568.3	1568.3	1568.3	1568.3
2.5°	1571.6	1568.3	1558.2	1568.3	1570.0
5°	1566.6	1563.2	1553.2	1563.2	1563.2
7.5°	1556.5	1553.2	1543.1	1554.8	1554.8
10°	1541.4	1539.7	1529.7	1543.1	1543.1
12.5°	1524.6	1522.9	1514.5	1528.0	1528.0
15°	1502.8	1501.1	1494.4	1507.8	1509.5
17.5°	1475.9	1475.9	1472.6	1486.0	1487.7
20°	1447.4	1447.4	1447.4	1464.2	1465.8
22.5°	1415.5	1413.8	1417.2	1435.6	1440.7
25°	1378.5	1380.2	1385.3	1407.1	1413.8
27.5°	1339.9	1343.3	1353.3	1376.9	1381.9
30°	1297.9	1303.0	1316.4	1343.3	1350.0
32.5°	1254.3	1261.0	1281.1	1308.0	1319.8
35°	1208.9	1215.7	1240.8	1274.4	1289.5
37.5°	1158.6	1168.6	1198.9	1240.8	1254.3
40°	1106.5	1121.6	1158.6	1203.9	1222.4
42.5°	1057.8	1072.9	1116.6	1168.6	1192.2
45°	1000.7	1022.6	1072.9	1133.4	1158.6
47.5°	942.0	972.2	1032.6	1096.4	1126.7
50°	884.9	918.5	990.7	1061.2	1091.4
52.5°	826.1	869.8	945.3	1022.6	1056.1
55°	767.3	816.0	901.7	982.3	1014.2
57.5°	708.6	769.0	858.0	936.9	968.8
60°	648.1	717.0	811.0	886.6	918.5
62.5°	589.4	664.9	759.0	827.8	851.3
65°	532.3	612.9	705.2	760.6	779.1
67.5°	470.1	562.5	646.5	688.4	695.1
70°	411.4	512.1	582.6	606.2	611.2
72.5°	350.9	460.1	512.1	515.5	512.1
75°	293.8	401.3	431.5	421.5	409.7
77.5°	238.4	340.9	347.6	315.7	303.9
80°	184.7	275.4	251.9	211.6	191.4
82.5°	131.0	203.2	156.2	124.3	115.9
85°	84.0	117.5	80.6	70.5	68.8
87.5°	38.6	43.7	33.6	30.2	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)