

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: P189694

Luminaire Tested: **BRG-WN-1L30-LD2-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189694  
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-1L30-LD2-UNV-24-STD  
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND NANO PRISM INLAY  
LIGHT LEVEL 1 (615 mA)  
Light Source: (308) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2875.9 lumens  
Efficiency: N/A  
Efficacy: 106.1 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

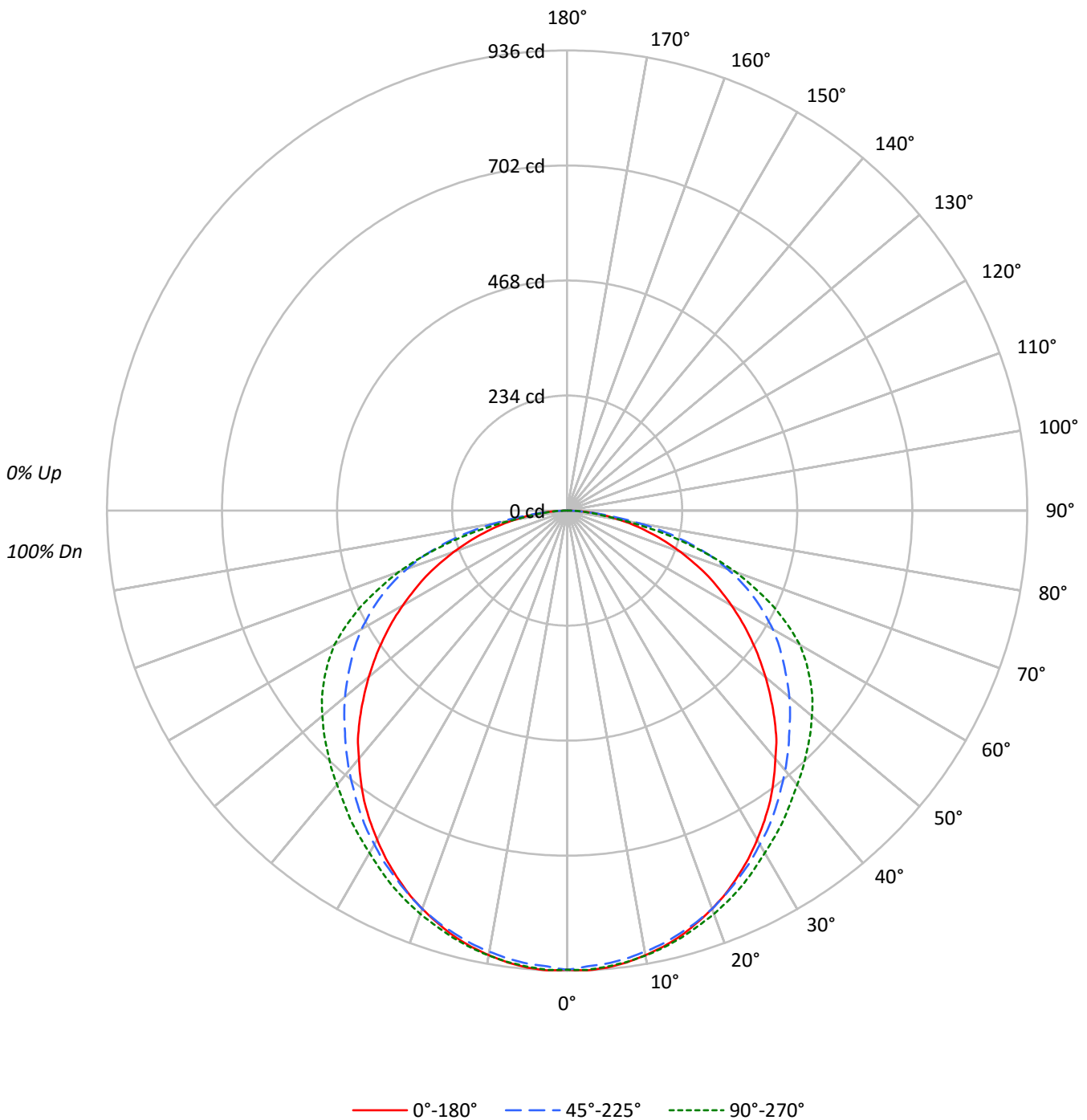
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P189694

CATALOG NUMBER: BRG-WN-1L30-LD2-UNV-24-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P189694

CATALOG NUMBER: BRG-WN-1L30-LD2-UNV-24-STD

**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°	1431	1431	1431
5°	1435	1422	1432
10°	1428	1417	1429
15°	1419	1411	1426
20°	1405	1405	1423
25°	1388	1394	1423
30°	1367	1387	1422
35°	1346	1382	1436
40°	1318	1380	1456
45°	1291	1384	1495
50°	1256	1406	1549
55°	1220	1434	1613
60°	1182	1480	1676
65°	1149	1522	1682
70°	1097	1554	1630
75°	1036	1521	1444
80°	970	1323	1006
85°	879	844	721



TEST NUMBER: P189694

CATALOG NUMBER: BRG-WN-1L30-LD2-UNV-24-STD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.3	3.1
10°-20°	252.5	8.8
20°-30°	382.3	13.3
30°-40°	464.2	16.1
40°-50°	495.6	17.2
50°-60°	478.3	16.6
60°-70°	401.5	14.0
70°-80°	250.1	8.7
80°-90°	63.1	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°	723.2	25.1
0°-40°	1187.4	41.3
0°-60°	2161.3	75.2
0°-90°	2875.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2875.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	934	934	934	934	934	
5°	933	931	925	931	931	89
15°	895	894	890	898	899	252
25°	821	822	825	838	842	378
35°	720	724	739	759	768	450
45°	596	609	639	675	690	459
55°	457	486	537	585	604	409
65°	317	365	420	453	464	313
75°	175	239	257	251	244	186
85°	50	70	48	42	41	56
90°	0	0	0	0	0	



TEST NUMBER: P189694

CATALOG NUMBER: BRG-WN-1L30-LD2-UNV-24-STD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	934.1	934.1	934.1	934.1	934.1
2.5°	936.1	934.1	928.1	934.1	935.1
5°	933.1	931.1	925.1	931.1	931.1
7.5°	927.1	925.1	919.1	926.1	926.1
10°	918.1	917.1	911.1	919.1	919.1
12.5°	908.1	907.1	902.1	910.1	910.1
15°	895.1	894.1	890.1	898.1	899.1
17.5°	879.1	879.1	877.1	885.1	886.1
20°	862.1	862.1	862.1	872.1	873.1
22.5°	843.1	842.1	844.1	855.1	858.1
25°	821.1	822.1	825.1	838.1	842.1
27.5°	798.1	800.1	806.1	820.1	823.1
30°	773.1	776.1	784.1	800.1	804.1
32.5°	747.1	751.1	763.1	779.1	786.1
35°	720.1	724.1	739.1	759.1	768.1
37.5°	690.1	696.1	714.1	739.1	747.1
40°	659.0	668.0	690.1	717.1	728.1
42.5°	630.0	639.0	665.0	696.1	710.1
45°	596.0	609.0	639.0	675.0	690.1
47.5°	561.0	579.0	615.0	653.0	671.0
50°	527.0	547.0	590.0	632.0	650.0
52.5°	492.0	518.0	563.0	609.0	629.0
55°	457.0	486.0	537.0	585.0	604.0
57.5°	422.0	458.0	511.0	558.0	577.0
60°	386.0	427.0	483.0	528.0	547.0
62.5°	351.0	396.0	452.0	493.0	507.0
65°	317.0	365.0	420.0	453.0	464.0
67.5°	280.0	335.0	385.0	410.0	414.0
70°	245.0	305.0	347.0	361.0	364.0
72.5°	209.0	274.0	305.0	307.0	305.0
75°	175.0	239.0	257.0	251.0	244.0
77.5°	142.0	203.0	207.0	188.0	181.0
80°	110.0	164.0	150.0	126.0	114.0
82.5°	78.0	121.0	93.0	74.0	69.0
85°	50.0	70.0	48.0	42.0	41.0
87.5°	23.0	26.0	20.0	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)