

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: P189556

Luminaire Tested: **BRG-WN-1L30-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34865)
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-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND NANO PRISM INLAY
LIGHT LEVEL 1 (408 mA)
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

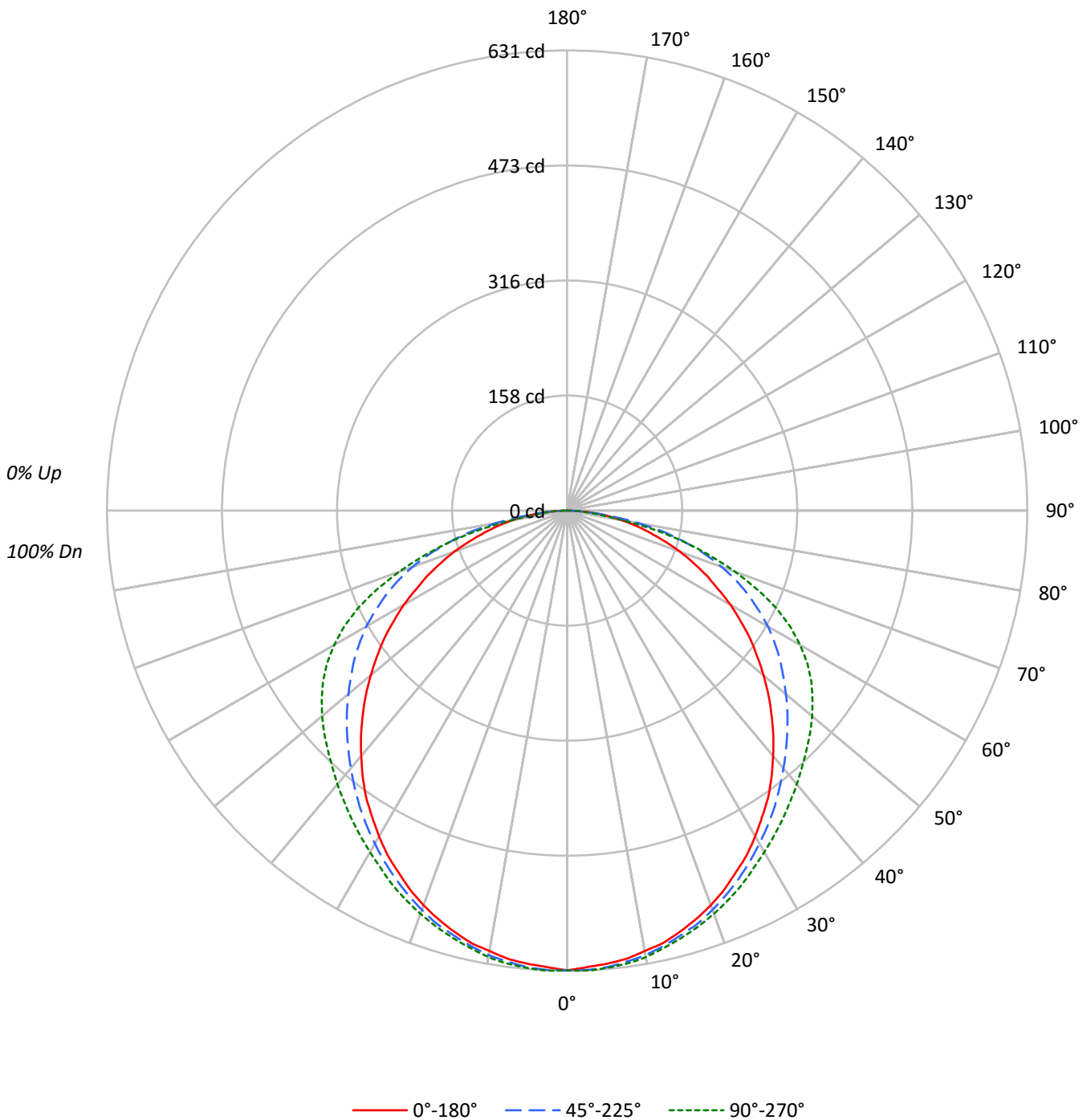
Lumens per Lamp: N/A
Luminaire Lumens: 1918.5 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 18.6
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	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	36	31	57	45	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2019	2019	2019
5°	2005	2021	2024
10°	1994	2013	2022
15°	1983	1999	2011
20°	1963	1986	2005
25°	1934	1968	2002
30°	1907	1950	1999
35°	1879	1938	2017
40°	1837	1929	2048
45°	1795	1934	2102
50°	1751	1952	2185
55°	1712	1989	2282
60°	1658	2037	2362
65°	1600	2078	2396
70°	1538	2111	2289
75°	1454	2069	2056
80°	1392	1815	1427
85°	1297	1297	1055



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	3.1
10°-20°	170.1	8.9
20°-30°	256.7	13.4
30°-40°	310.9	16.2
40°-50°	331.1	17.3
50°-60°	318.5	16.6
60°-70°	265.9	13.9
70°-80°	164.0	8.6
80°-90°	41.6	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°	486.4	25.4
0°-40°	797.3	41.6
0°-60°	1446.9	75.4
0°-90°	1918.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1918.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	630	630	630	630	630	
5°	624	626	629	630	630	59
15°	598	600	603	606	607	169
25°	547	550	557	564	566	252
35°	480	484	496	509	516	300
45°	396	405	427	452	464	306
55°	307	322	356	392	409	273
65°	211	239	274	303	316	209
75°	118	149	167	168	166	125
85°	35	43	35	30	29	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	630.5	630.5	630.5	630.5	630.5
2.5°	626.6	627.6	630.5	631.4	631.4
5°	623.8	625.7	628.6	629.5	629.5
7.5°	620.0	620.9	623.8	625.7	626.6
10°	613.3	615.2	619.0	620.9	621.9
12.5°	607.5	607.5	611.4	614.2	614.2
15°	598.0	599.9	602.8	605.6	606.6
17.5°	587.5	589.4	594.2	597.0	598.0
20°	576.0	577.9	582.7	586.5	588.4
22.5°	562.6	564.6	570.3	576.0	577.9
25°	547.4	550.2	556.9	563.6	566.5
27.5°	533.0	534.9	542.6	550.2	553.1
30°	515.8	518.7	527.3	536.8	540.7
32.5°	497.7	502.5	512.0	523.5	528.3
35°	480.5	484.3	495.8	509.1	515.8
37.5°	460.4	465.2	478.6	494.8	502.5
40°	439.4	445.1	461.4	479.5	490.0
42.5°	418.4	426.0	444.2	466.2	476.7
45°	396.4	405.0	427.0	451.8	464.2
47.5°	374.5	385.0	409.8	437.5	451.8
50°	351.5	363.9	391.7	423.2	438.5
52.5°	328.6	342.9	373.5	406.9	424.1
55°	306.6	321.9	356.3	391.7	408.8
57.5°	281.8	299.9	337.2	372.5	390.7
60°	258.9	279.9	318.1	352.5	368.7
62.5°	233.1	259.8	296.1	330.5	344.8
65°	211.1	238.8	274.2	302.8	316.2
67.5°	187.2	216.8	251.2	274.2	281.8
70°	164.3	194.9	225.4	240.7	244.5
72.5°	140.4	172.9	197.7	206.3	205.4
75°	117.5	149.0	167.2	168.1	166.2
77.5°	96.5	124.2	136.6	129.0	125.1
80°	75.5	97.4	98.4	86.0	77.4
82.5°	55.4	70.7	63.0	51.6	46.8
85°	35.3	43.0	35.3	29.6	28.7
87.5°	15.3	17.2	13.4	12.4	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)