

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: P189502

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34939)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WS-1L30-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 1 (408 mA)
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

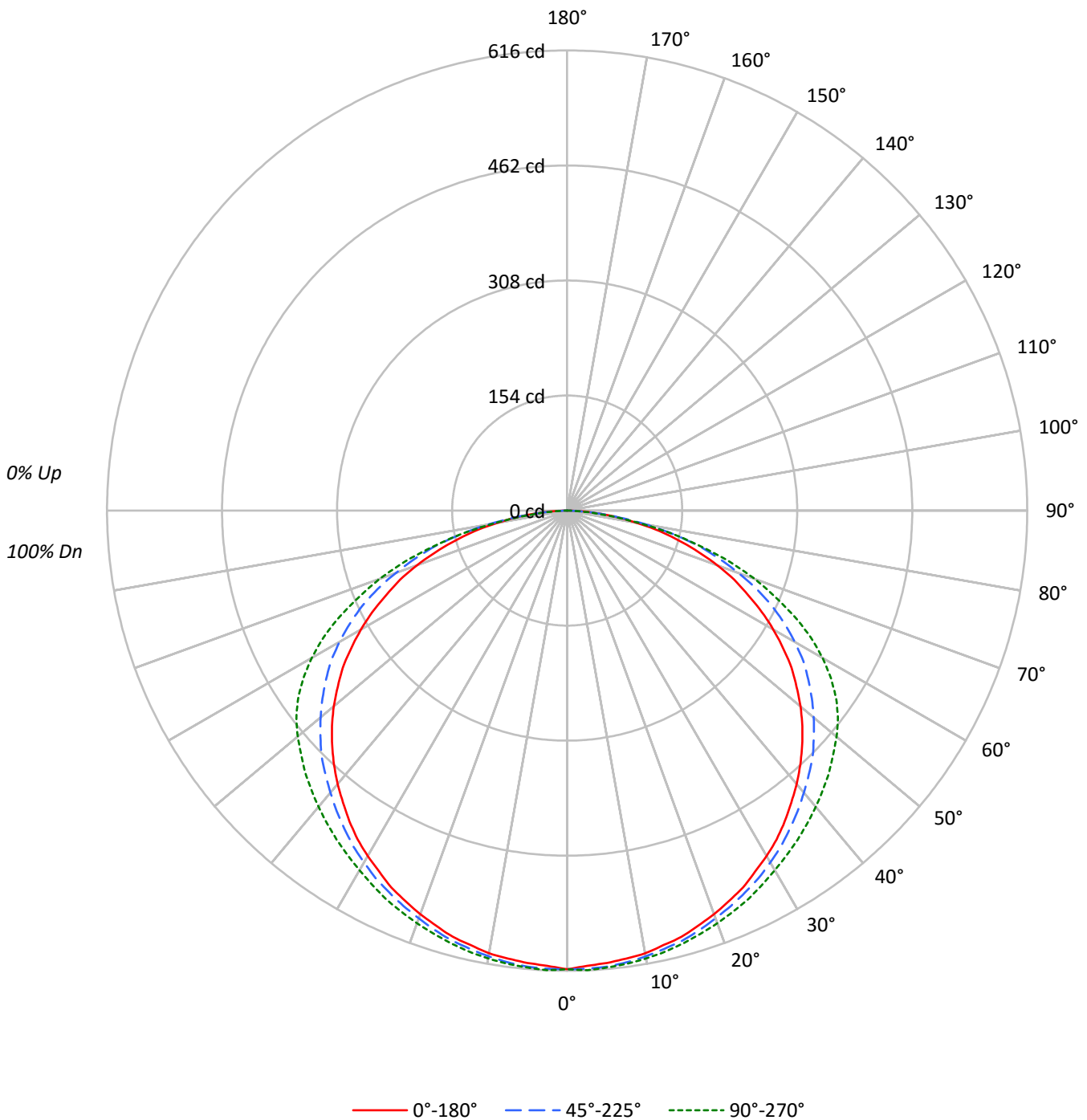
Lumens per Lamp: N/A
Luminaire Lumens: 2058.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.36 / 1.47
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

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	98	94	105	100	96	92	96	93	89		92	89	87		89	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	61	86	75	67	61	72	65	60		70	64	59		67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50		61	55	49		59	53	49	47
5	74	60	51	44	71	59	50	43	57	49	43		55	48	42		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33		45	38	32		43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	24		35	28	23		34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1966	1966	1966
5°	1954	1970	1974
10°	1957	1970	1980
15°	1959	1976	1989
20°	1959	1980	2004
25°	1968	1993	2028
30°	1974	2011	2056
35°	1986	2033	2103
40°	1998	2061	2165
45°	2015	2106	2246
50°	2032	2147	2346
55°	2049	2199	2456
60°	2043	2254	2529
65°	2023	2295	2545
70°	2004	2285	2500
75°	1918	2252	2289
80°	1752	1955	1844
85°	1433	1396	1213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	2.8
10°-20°	168.2	8.2
20°-30°	260.4	12.7
30°-40°	326.5	15.9
40°-50°	360.5	17.5
50°-60°	355.3	17.3
60°-70°	298.0	14.5
70°-80°	184.6	9.0
80°-90°	46.2	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°	486.8	23.7
0°-40°	813.4	39.5
0°-60°	1529.2	74.3
0°-90°	2058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2058.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	614	614	614	614	614	
5°	608	610	613	614	614	58
15°	591	592	596	599	600	167
25°	557	558	564	571	574	257
35°	508	510	520	532	538	318
45°	445	449	465	484	496	343
55°	367	372	394	423	440	327
65°	267	280	303	326	336	265
75°	155	171	182	182	185	164
85°	39	44	38	33	33	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	613.9	613.9	613.9	613.9	613.9
2.5°	609.9	611.9	613.9	615.9	615.9
5°	607.9	609.9	612.9	613.9	613.9
7.5°	604.9	606.9	609.9	610.9	611.9
10°	601.9	602.9	605.9	607.9	608.9
12.5°	595.9	597.9	600.9	603.9	604.9
15°	590.9	591.9	595.9	598.9	599.9
17.5°	582.9	584.9	588.9	592.9	593.9
20°	574.9	575.9	580.9	585.9	587.9
22.5°	565.9	567.9	572.9	578.9	580.9
25°	556.9	557.9	563.9	570.9	573.9
27.5°	544.9	547.9	554.9	560.9	564.9
30°	533.9	535.9	543.9	551.9	555.9
32.5°	521.9	523.9	532.9	542.9	546.9
35°	507.9	509.9	519.9	531.9	537.9
37.5°	492.9	495.9	506.9	520.9	527.9
40°	477.9	480.9	492.9	509.9	517.9
42.5°	461.9	464.9	478.9	497.9	506.9
45°	444.9	448.9	464.9	483.9	495.9
47.5°	426.9	431.9	447.9	471.9	482.9
50°	407.9	411.9	430.9	456.9	470.9
52.5°	386.9	392.9	412.9	441.9	456.9
55°	366.9	371.9	393.9	422.9	439.9
57.5°	342.9	350.9	374.9	402.9	418.9
60°	318.9	327.9	351.9	379.9	394.9
62.5°	293.9	304.9	327.9	354.9	367.9
65°	267.0	279.9	302.9	325.9	335.9
67.5°	242.0	254.0	275.0	292.9	300.9
70°	214.0	227.0	244.0	259.0	267.0
72.5°	184.0	200.0	213.0	221.0	228.0
75°	155.0	171.0	182.0	182.0	185.0
77.5°	127.0	139.0	145.0	143.0	145.0
80°	95.0	107.0	106.0	102.0	100.0
82.5°	66.0	74.0	70.0	64.0	62.0
85°	39.0	44.0	38.0	33.0	33.0
87.5°	16.0	17.0	12.0	9.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)