

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: P189520

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34863)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WG-1L30-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND
RECTANGULAR PERF INLAY
LIGHT LEVEL 1 (408 mA)
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

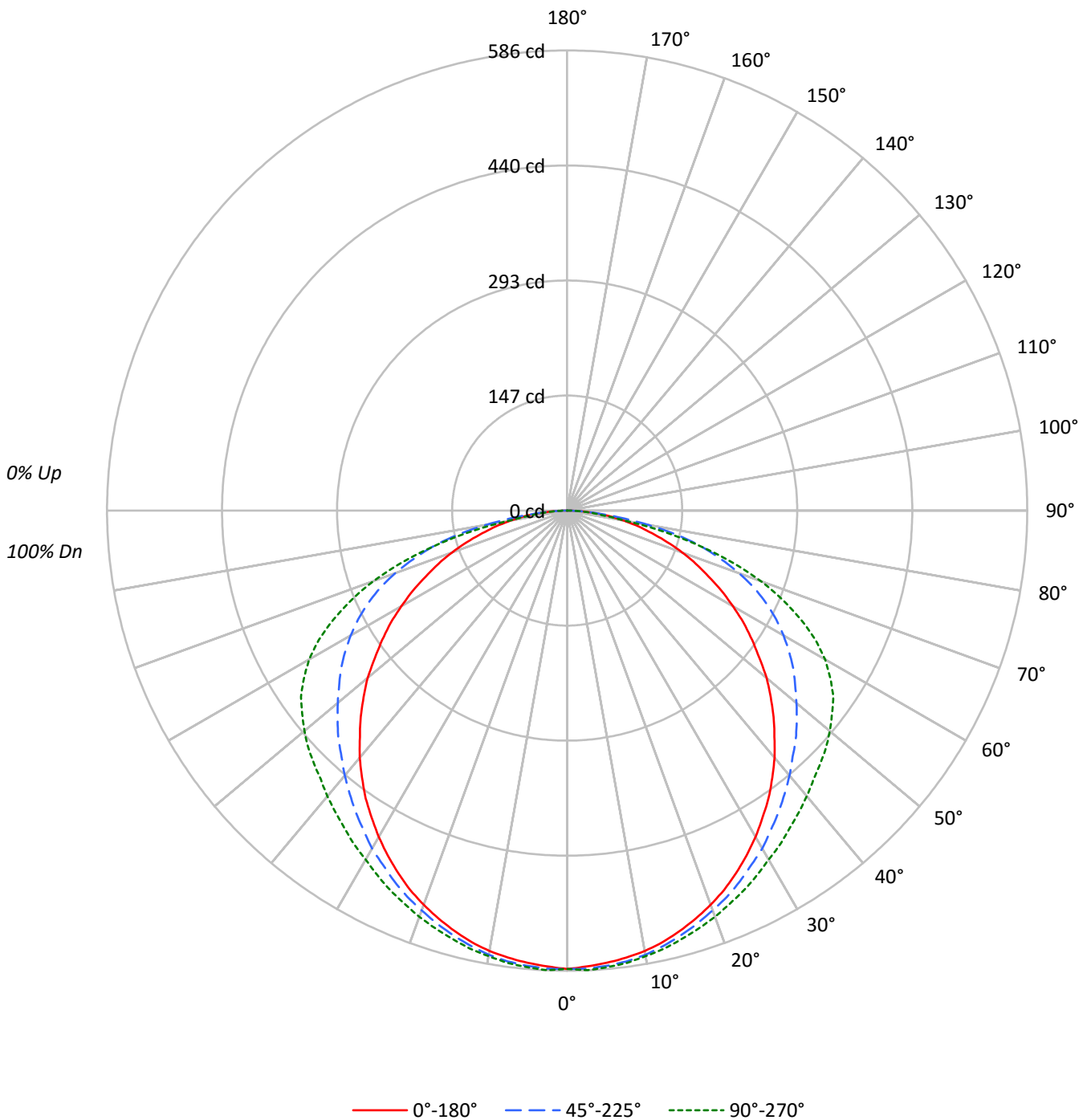
Lumens per Lamp: N/A
Luminaire Lumens: 1861.2 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 18.6
Input Voltage (V): NR
Input Current (A_{in}): 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	62	86	75	67	61	72	66	60	70	64	59	67	62	58	55
4	81	68	59	52	78	67	58	51	64	56	50	62	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	30
8	59	45	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	29	24	50	37	29	24	36	29	24	35	28	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1870	1870	1870
5°	1858	1871	1877
10°	1852	1868	1874
15°	1837	1857	1872
20°	1821	1846	1876
25°	1800	1840	1884
30°	1774	1837	1897
35°	1748	1834	1931
40°	1718	1842	1985
45°	1683	1865	2064
50°	1652	1900	2176
55°	1606	1963	2310
60°	1561	2038	2430
65°	1506	2122	2491
70°	1459	2184	2461
75°	1383	2199	2188
80°	1339	1938	1427
85°	1227	1371	1055



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	3.0
10°-20°	158.0	8.5
20°-30°	240.2	12.9
30°-40°	294.2	15.8
40°-50°	318.6	17.1
50°-60°	313.5	16.8
60°-70°	269.0	14.5
70°-80°	169.6	9.1
80°-90°	42.8	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°	453.5	24.4
0°-40°	747.7	40.2
0°-60°	1379.8	74.1
0°-90°	1861.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1861.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	584	584	584	584	584	
5°	578	580	582	583	584	55
15°	554	556	560	564	565	156
25°	509	512	521	529	533	235
35°	447	453	469	486	494	279
45°	372	383	412	442	456	287
55°	288	309	352	393	414	257
65°	199	233	280	314	329	197
75°	112	151	178	179	177	119
85°	33	46	37	30	29	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	583.8	583.8	583.8	583.8	583.8
2.5°	581.0	581.9	583.8	585.8	585.8
5°	578.1	580.0	581.9	582.9	583.8
7.5°	574.3	576.2	579.1	580.0	581.0
10°	569.5	570.5	574.3	576.2	576.2
12.5°	562.8	563.8	567.6	570.5	571.4
15°	554.2	556.1	560.0	563.8	564.7
17.5°	544.7	546.6	551.4	556.1	558.0
20°	534.2	536.1	541.8	547.5	550.4
22.5°	522.7	525.6	532.2	538.9	541.8
25°	509.3	512.2	520.8	529.4	533.2
27.5°	495.0	499.8	508.4	518.9	523.6
30°	479.7	484.5	496.9	508.4	513.1
32.5°	463.4	469.2	482.6	496.9	504.5
35°	447.2	452.9	469.2	486.4	494.0
37.5°	429.0	436.7	454.8	474.9	484.5
40°	410.9	419.5	440.5	463.4	474.9
42.5°	390.8	400.4	425.2	452.0	464.4
45°	371.7	383.2	411.8	441.5	455.8
47.5°	351.6	365.0	396.6	430.0	447.2
50°	331.6	345.9	381.3	418.5	436.7
52.5°	308.6	327.8	366.0	406.1	425.2
55°	287.6	308.6	351.6	392.7	413.8
57.5°	266.6	290.5	335.4	377.4	397.5
60°	243.7	271.4	318.2	359.3	379.4
62.5°	221.7	253.2	300.0	339.2	356.4
65°	198.8	233.2	280.0	314.4	328.7
67.5°	177.7	214.0	258.0	286.7	297.2
70°	155.8	194.9	233.2	254.2	262.8
72.5°	133.8	173.0	205.4	217.9	221.7
75°	111.8	151.0	177.7	178.7	176.8
77.5°	92.7	127.1	143.3	134.7	130.0
80°	72.6	102.2	105.1	87.9	77.4
82.5°	53.5	72.6	65.9	51.6	44.9
85°	33.4	45.9	37.3	29.6	28.7
87.5°	15.3	17.2	14.3	14.3	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)