

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: P189538

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34970)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WD-1L30-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY
LIGHT LEVEL 1 (408 mA)
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

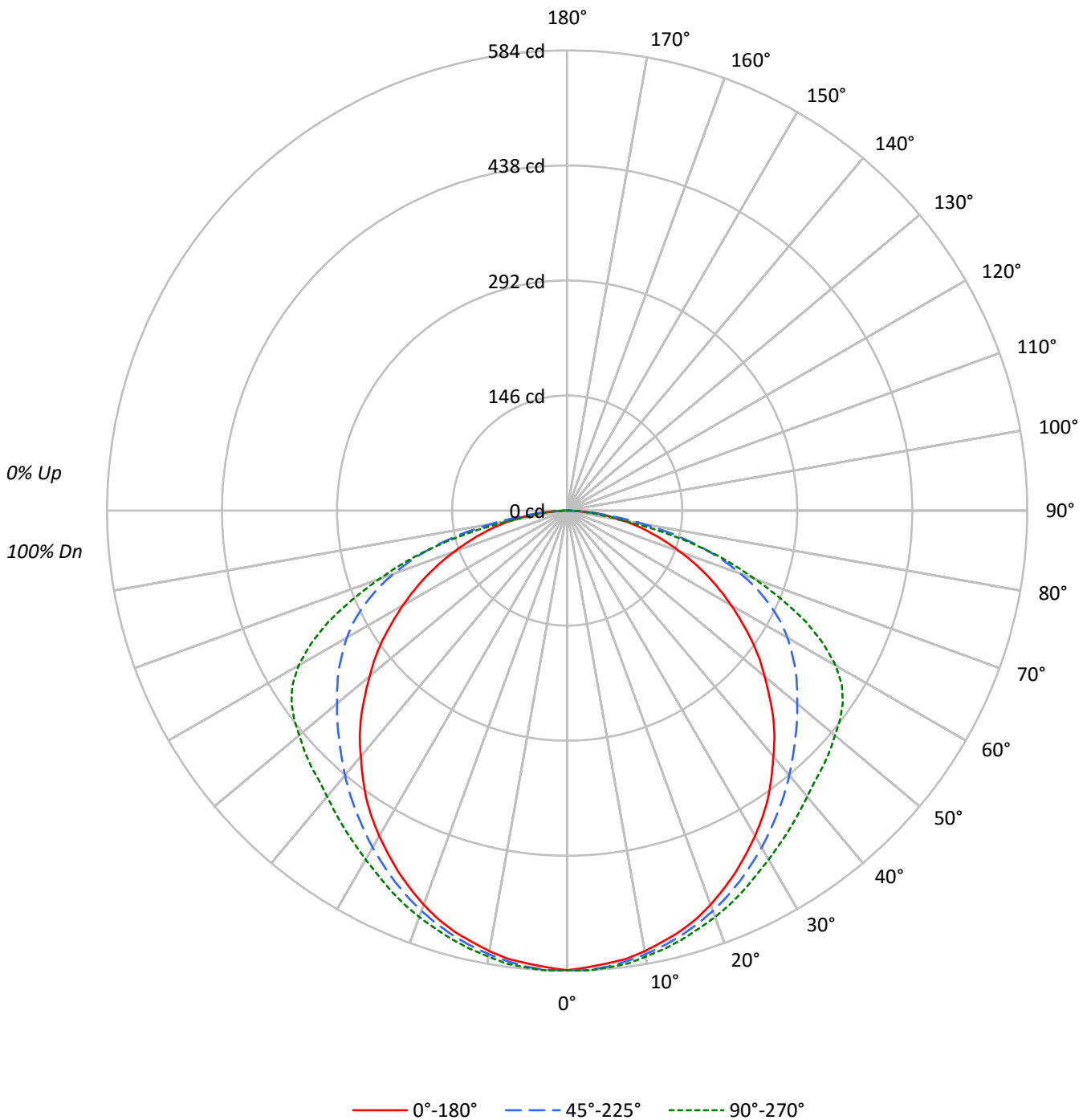
Lumens per Lamp: N/A
Luminaire Lumens: 1856.4 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

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	101	96	93	96	93	90	92	89	87	89	86	84	82
2	97	89	81	75	95	87	80	74	83	77	73	80	75	71	77	73	69	67
3	88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
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°	1868	1868	1868
5°	1855	1868	1872
10°	1846	1859	1870
15°	1834	1851	1868
20°	1814	1842	1871
25°	1789	1833	1877
30°	1764	1826	1891
35°	1739	1824	1926
40°	1703	1833	1981
45°	1675	1854	2080
50°	1630	1899	2211
55°	1593	1977	2384
60°	1541	2068	2522
65°	1492	2154	2533
70°	1424	2195	2370
75°	1366	2139	2087
80°	1306	1824	1287
85°	1146	1224	955



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	3.0
10°-20°	157.6	8.5
20°-30°	239.1	12.9
30°-40°	292.8	15.8
40°-50°	318.1	17.1
50°-60°	316.8	17.1
60°-70°	271.5	14.6
70°-80°	165.9	8.9
80°-90°	39.5	2.1
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°	451.8	24.3
0°-40°	744.6	40.1
0°-60°	1379.5	74.3
0°-90°	1856.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1856.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	583	583	583	583	583	
5°	577	579	581	582	582	55
15°	553	554	558	562	564	156
25°	506	509	519	527	531	233
35°	445	450	467	484	493	278
45°	370	380	409	442	459	285
55°	285	307	354	402	427	255
65°	197	233	284	321	334	195
75°	110	152	173	173	169	117
85°	31	42	33	28	26	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	583.3	583.3	583.3	583.3	583.3
2.5°	580.2	581.2	583.3	584.3	584.3
5°	577.0	579.1	581.2	582.2	582.2
7.5°	573.9	574.9	577.0	579.1	580.2
10°	567.7	568.7	571.8	574.9	574.9
12.5°	560.4	562.5	565.6	568.7	569.7
15°	553.1	554.1	558.3	562.5	563.5
17.5°	543.7	544.7	550.0	555.2	556.2
20°	532.2	534.3	540.6	545.8	548.9
22.5°	519.7	521.8	530.2	537.5	540.6
25°	506.2	509.3	518.7	527.0	531.2
27.5°	491.6	495.8	506.2	516.6	520.8
30°	477.0	481.2	493.7	506.2	511.4
32.5°	461.4	466.6	480.2	494.7	502.0
35°	444.8	450.0	466.6	484.3	492.7
37.5°	426.0	434.3	453.1	473.9	483.3
40°	407.3	416.6	438.5	462.5	473.9
42.5°	389.5	398.9	423.9	452.0	465.6
45°	369.8	380.2	409.3	441.6	459.3
47.5°	347.9	362.5	395.8	432.3	452.0
50°	327.1	343.7	381.2	422.9	443.7
52.5°	307.3	326.0	367.7	413.5	436.4
55°	285.4	307.3	354.1	402.0	427.0
57.5°	262.5	288.5	338.5	388.5	413.5
60°	240.6	269.8	322.9	371.8	393.7
62.5°	218.7	253.1	305.2	350.0	366.6
65°	196.9	233.3	284.3	320.8	334.3
67.5°	175.0	215.6	261.4	287.5	294.8
70°	152.1	194.8	234.4	250.0	253.1
72.5°	131.2	173.9	205.2	212.5	213.5
75°	110.4	152.1	172.9	172.9	168.7
77.5°	91.7	127.1	137.5	129.2	121.9
80°	70.8	97.9	98.9	80.2	69.8
82.5°	51.0	69.8	61.5	47.9	42.7
85°	31.2	41.7	33.3	28.1	26.0
87.5°	11.5	13.5	11.5	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)