

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: P189524

Luminaire Tested: **BRG-WG-5L30-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189524
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-5L30-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND
RECTANGULAR PERF INLAY
LIGHT LEVEL 5 (845 mA)
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

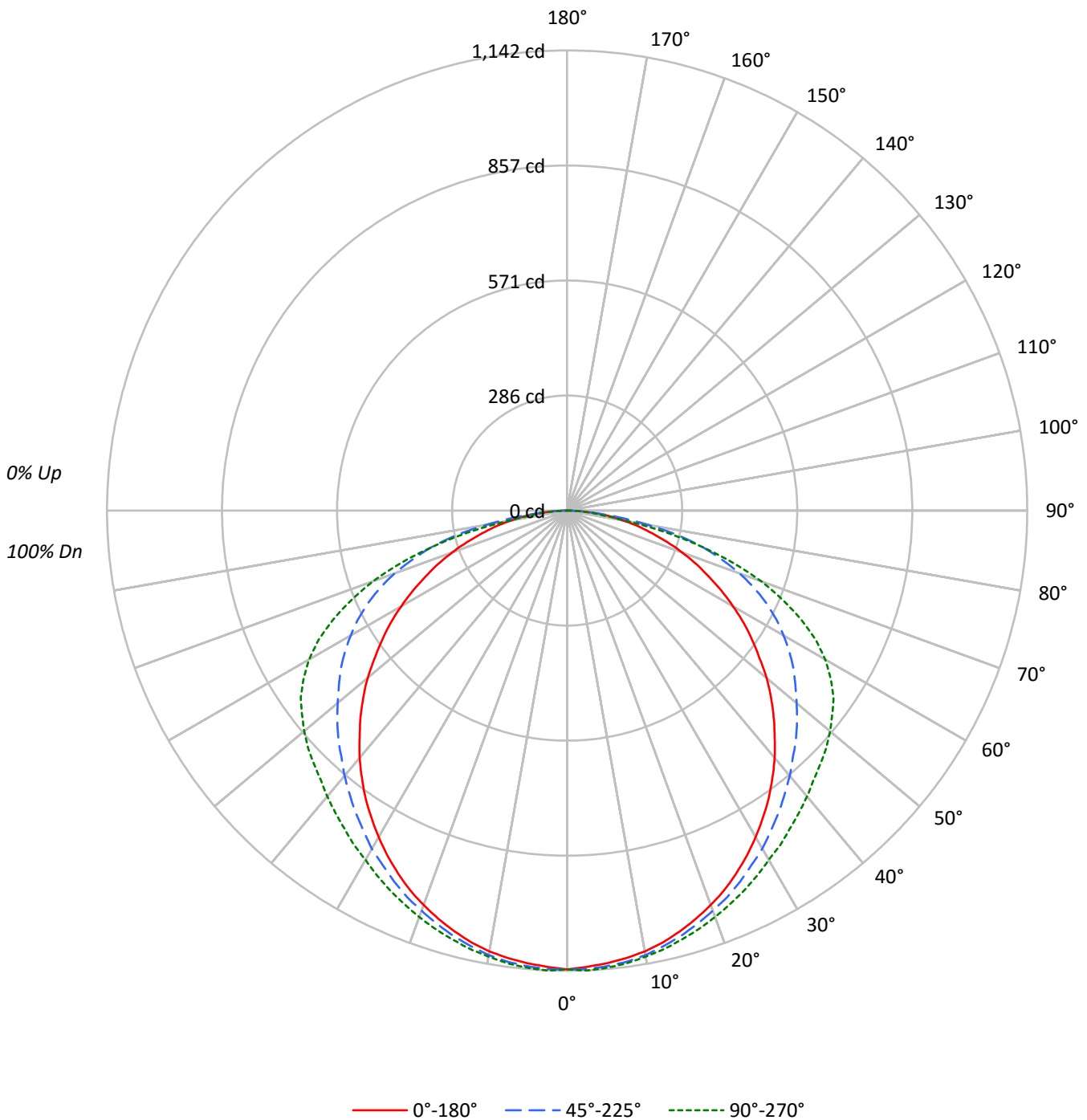
Lumens per Lamp: N/A
Luminaire Lumens: 3630.1 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 39.1
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



TEST NUMBER: P189524
CATALOG NUMBER: BRG-WG-5L30-LD2-UNV-22-STD

Luminous Intensity Polar Plot





TEST NUMBER: P189524

CATALOG NUMBER: BRG-WG-5L30-LD2-UNV-22-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	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°	3647	3647	3647
5°	3625	3649	3661
10°	3612	3642	3654
15°	3584	3621	3652
20°	3550	3602	3659
25°	3510	3589	3675
30°	3460	3584	3701
35°	3410	3578	3767
40°	3350	3592	3872
45°	3284	3638	4026
50°	3222	3705	4243
55°	3132	3830	4506
60°	3044	3975	4739
65°	2938	4138	4858
70°	2845	4259	4799
75°	2699	4290	4266
80°	2611	3781	2785
85°	2396	2671	2054



TEST NUMBER: P189524

CATALOG NUMBER: BRG-WG-5L30-LD2-UNV-22-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	3.0
10°-20°	308.2	8.5
20°-30°	468.6	12.9
30°-40°	573.9	15.8
40°-50°	621.4	17.1
50°-60°	611.5	16.8
60°-70°	524.6	14.5
70°-80°	330.9	9.1
80°-90°	83.4	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°	884.5	24.4
0°-40°	1458.4	40.2
0°-60°	2691.2	74.1
0°-90°	3630.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3630.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1128	1131	1135	1137	1139	107
15°	1081	1085	1092	1100	1102	305
25°	993	999	1016	1032	1040	458
35°	872	883	915	949	964	545
45°	725	747	803	861	889	559
55°	561	602	686	766	807	502
65°	388	455	546	613	641	385
75°	218	294	347	348	345	233
85°	65	90	73	58	56	74
90°	0	0	0	0	0	



TEST NUMBER: P189524

CATALOG NUMBER: BRG-WG-5L30-LD2-UNV-22-STD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1138.8	1138.8	1138.8	1138.8	1138.8
2.5°	1133.2	1135.0	1138.8	1142.5	1142.5
5°	1127.6	1131.3	1135.0	1136.9	1138.8
7.5°	1120.1	1123.8	1129.4	1131.3	1133.2
10°	1110.8	1112.7	1120.1	1123.8	1123.8
12.5°	1097.8	1099.6	1107.1	1112.7	1114.5
15°	1081.0	1084.7	1092.2	1099.6	1101.5
17.5°	1062.3	1066.1	1075.4	1084.7	1088.4
20°	1041.8	1045.6	1056.8	1067.9	1073.5
22.5°	1019.5	1025.1	1038.1	1051.2	1056.8
25°	993.4	999.0	1015.7	1032.5	1040.0
27.5°	965.4	974.7	991.5	1012.0	1021.3
30°	935.6	944.9	969.2	991.5	1000.8
32.5°	903.9	915.1	941.2	969.2	984.1
35°	872.2	883.4	915.1	948.7	963.6
37.5°	836.8	851.7	887.1	926.3	944.9
40°	801.4	818.2	859.2	903.9	926.3
42.5°	762.3	780.9	829.4	881.6	905.8
45°	725.0	747.4	803.3	861.1	889.0
47.5°	685.9	712.0	773.5	838.7	872.2
50°	646.7	674.7	743.6	816.3	851.7
52.5°	602.0	639.3	713.8	792.1	829.4
55°	561.0	602.0	685.9	766.0	807.0
57.5°	520.0	566.6	654.2	736.2	775.3
60°	475.3	529.3	620.6	700.8	739.9
62.5°	432.4	493.9	585.2	661.6	695.2
65°	387.7	454.8	546.1	613.2	641.1
67.5°	346.7	417.5	503.2	559.1	579.6
70°	303.8	380.2	454.8	495.8	512.5
72.5°	260.9	337.3	400.7	424.9	432.4
75°	218.1	294.5	346.7	348.5	344.8
77.5°	180.8	247.9	279.6	262.8	253.5
80°	141.6	199.4	205.0	171.5	151.0
82.5°	104.4	141.6	128.6	100.6	87.6
85°	65.2	89.5	72.7	57.8	55.9
87.5°	29.8	33.5	28.0	28.0	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)