

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: P189543

Luminaire Tested: **BRG-WD-6L30-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189543
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-6L30-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY
LIGHT LEVEL 6 (975 mA)
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

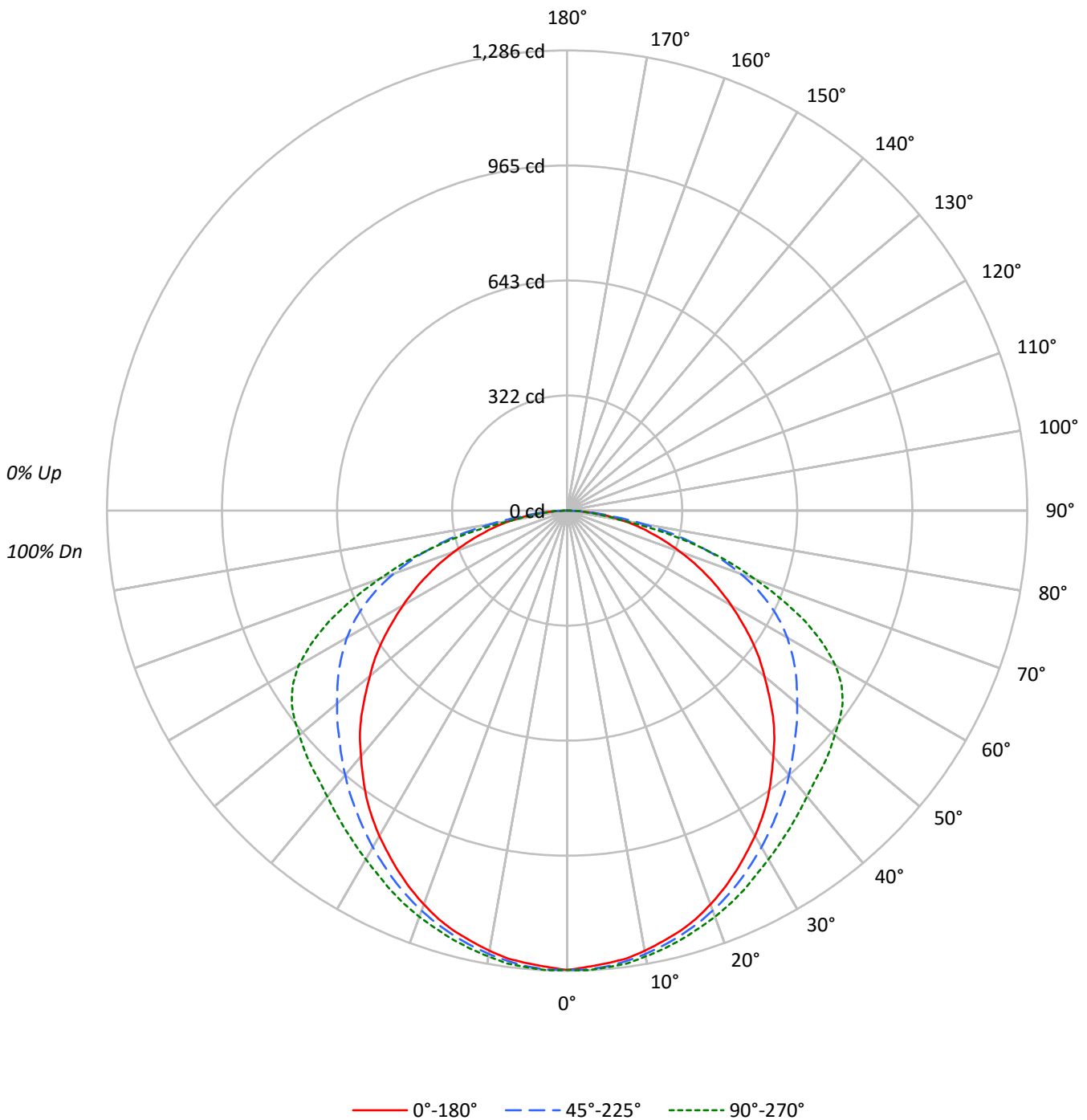
Lumens per Lamp: N/A
Luminaire Lumens: 4085.3 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 45.7
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	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°	4111	4111	4111
5°	4082	4112	4119
10°	4062	4092	4115
15°	4035	4073	4112
20°	3992	4054	4117
25°	3936	4034	4131
30°	3882	4018	4162
35°	3827	4015	4239
40°	3747	4034	4360
45°	3685	4080	4578
50°	3586	4180	4865
55°	3507	4351	5247
60°	3391	4551	5549
65°	3283	4742	5576
70°	3134	4829	5215
75°	3007	4708	4594
80°	2875	4017	2833
85°	2528	2693	2105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	3.0
10°-20°	346.7	8.5
20°-30°	526.2	12.9
30°-40°	644.5	15.8
40°-50°	700.0	17.1
50°-60°	697.2	17.1
60°-70°	597.4	14.6
70°-80°	365.0	8.9
80°-90°	86.9	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°	994.2	24.3
0°-40°	1638.7	40.1
0°-60°	3036.0	74.3
0°-90°	4085.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4085.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1270	1274	1279	1281	1281	121
15°	1217	1219	1229	1238	1240	343
25°	1114	1121	1142	1160	1169	513
35°	979	990	1027	1066	1084	611
45°	814	837	901	972	1011	626
55°	628	676	779	885	940	561
65°	433	513	626	706	736	429
75°	243	335	380	380	371	258
85°	69	92	73	62	57	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1283.6	1283.6	1283.6	1283.6	1283.6
2.5°	1276.7	1279.0	1283.6	1285.9	1285.9
5°	1269.9	1274.4	1279.0	1281.3	1281.3
7.5°	1263.0	1265.3	1269.9	1274.4	1276.7
10°	1249.2	1251.5	1258.4	1265.3	1265.3
12.5°	1233.2	1237.8	1244.7	1251.5	1253.8
15°	1217.1	1219.4	1228.6	1237.8	1240.1
17.5°	1196.5	1198.8	1210.3	1221.7	1224.0
20°	1171.3	1175.9	1189.6	1201.1	1208.0
22.5°	1143.8	1148.4	1166.7	1182.8	1189.6
25°	1114.0	1120.9	1141.5	1159.8	1169.0
27.5°	1081.9	1091.1	1114.0	1136.9	1146.1
30°	1049.8	1059.0	1086.5	1114.0	1125.5
32.5°	1015.4	1026.9	1056.7	1088.8	1104.8
35°	978.8	990.2	1026.9	1065.9	1084.2
37.5°	937.5	955.8	997.1	1042.9	1063.6
40°	896.2	916.9	965.0	1017.7	1042.9
42.5°	857.3	877.9	932.9	994.8	1024.6
45°	813.7	836.6	900.8	971.9	1010.8
47.5°	765.6	797.7	871.0	951.3	994.8
50°	719.7	756.4	838.9	930.6	976.5
52.5°	676.2	717.5	809.1	910.0	960.4
55°	628.1	676.2	779.3	884.8	939.8
57.5°	577.6	634.9	745.0	855.0	910.0
60°	529.5	593.7	710.6	818.3	866.4
62.5°	481.4	557.0	671.6	770.2	806.8
65°	433.2	513.4	625.8	706.0	735.8
67.5°	385.1	474.5	575.3	632.6	648.7
70°	334.7	428.6	515.7	550.1	557.0
72.5°	288.8	382.8	451.6	467.6	469.9
75°	243.0	334.7	380.5	380.5	371.3
77.5°	201.7	279.6	302.6	284.2	268.2
80°	155.9	215.5	217.8	176.5	153.6
82.5°	112.3	153.6	135.2	105.4	94.0
85°	68.8	91.7	73.3	61.9	57.3
87.5°	25.2	29.8	25.2	27.5	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)