

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: P189554

Luminaire Tested: **BRG-WD-5L40-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189554
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-5L40-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY
LIGHT LEVEL 5 (845 mA)
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

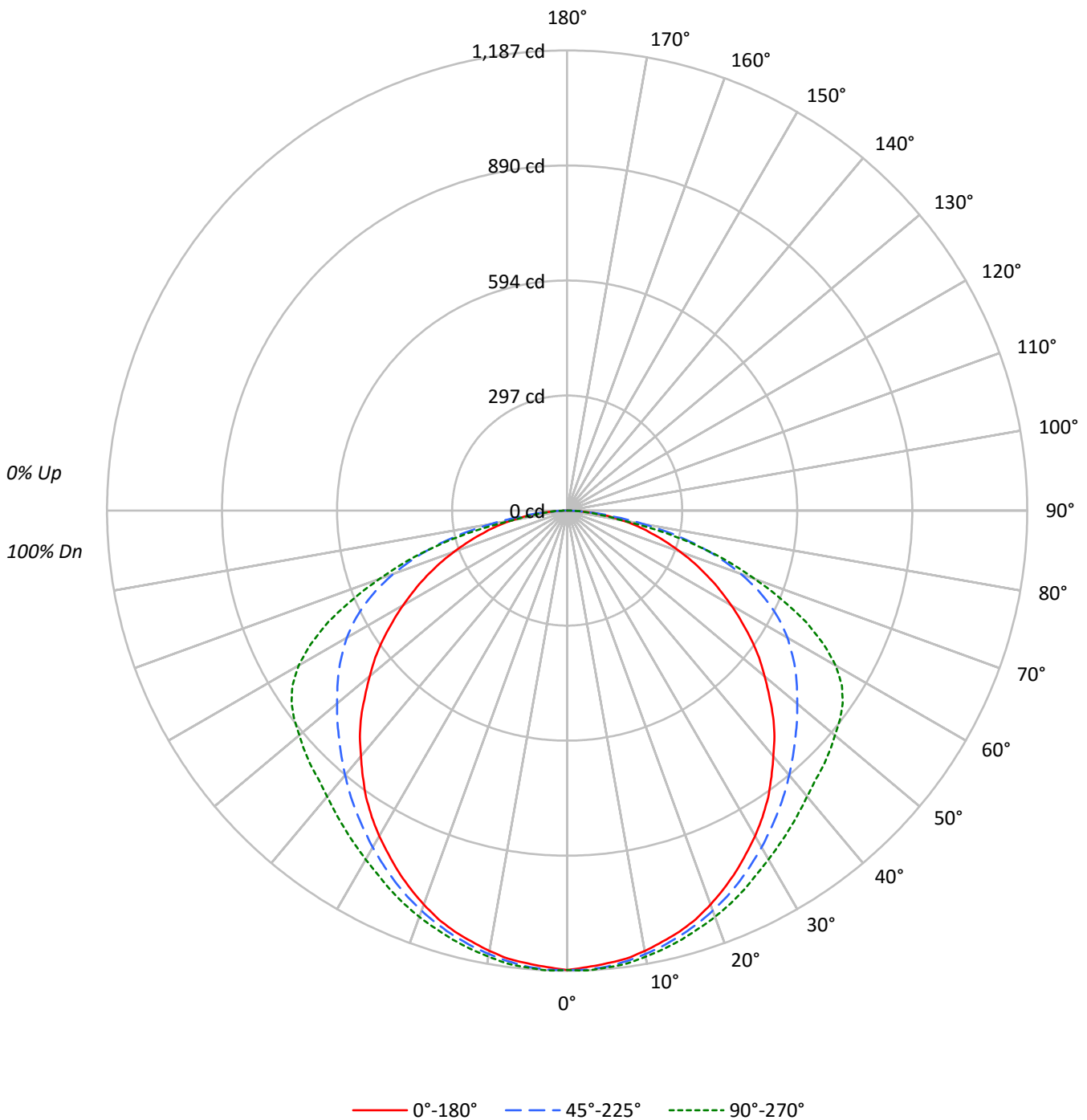
Lumens per Lamp: N/A
Luminaire Lumens: 3772.1 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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



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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°	3796	3796	3796
5°	3769	3797	3803
10°	3751	3778	3799
15°	3726	3761	3796
20°	3686	3743	3801
25°	3635	3724	3814
30°	3584	3710	3843
35°	3533	3707	3914
40°	3459	3725	4026
45°	3403	3767	4227
50°	3311	3859	4492
55°	3238	4018	4845
60°	3131	4202	5124
65°	3031	4378	5148
70°	2893	4459	4816
75°	2775	4347	4243
80°	2654	3709	2615
85°	2333	2488	1944



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	3.0
10°-20°	320.2	8.5
20°-30°	485.8	12.9
30°-40°	595.1	15.8
40°-50°	646.4	17.1
50°-60°	643.7	17.1
60°-70°	551.6	14.6
70°-80°	337.0	8.9
80°-90°	80.3	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°	918.0	24.3
0°-40°	1513.1	40.1
0°-60°	2803.2	74.3
0°-90°	3772.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3772.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1185	1185	1185	1185	1185	
5°	1172	1177	1181	1183	1183	111
15°	1124	1126	1134	1143	1145	317
25°	1029	1035	1054	1071	1079	474
35°	904	914	948	984	1001	564
45°	751	772	832	897	933	578
55°	580	624	720	817	868	518
65°	400	474	578	652	679	396
75°	224	309	351	351	343	238
85°	64	85	68	57	53	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1185.2	1185.2	1185.2	1185.2	1185.2
2.5°	1178.8	1181.0	1185.2	1187.3	1187.3
5°	1172.5	1176.7	1181.0	1183.1	1183.1
7.5°	1166.1	1168.3	1172.5	1176.7	1178.8
10°	1153.4	1155.6	1161.9	1168.3	1168.3
12.5°	1138.6	1142.9	1149.2	1155.6	1157.7
15°	1123.8	1125.9	1134.4	1142.9	1145.0
17.5°	1104.8	1106.9	1117.5	1128.0	1130.2
20°	1081.5	1085.7	1098.4	1109.0	1115.3
22.5°	1056.1	1060.3	1077.3	1092.1	1098.4
25°	1028.6	1034.9	1054.0	1070.9	1079.4
27.5°	998.9	1007.4	1028.6	1049.7	1058.2
30°	969.3	977.8	1003.2	1028.6	1039.2
32.5°	937.6	948.2	975.7	1005.3	1020.1
35°	903.7	914.3	948.2	984.1	1001.1
37.5°	865.6	882.5	920.6	963.0	982.0
40°	827.5	846.6	891.0	939.7	963.0
42.5°	791.5	810.6	861.4	918.5	946.0
45°	751.3	772.5	831.7	897.4	933.3
47.5°	706.9	736.5	804.2	878.3	918.5
50°	664.6	698.4	774.6	859.3	901.6
52.5°	624.3	662.4	747.1	840.2	886.8
55°	579.9	624.3	719.6	816.9	867.7
57.5°	533.3	586.2	687.8	789.4	840.2
60°	488.9	548.1	656.1	755.6	800.0
62.5°	444.4	514.3	620.1	711.1	745.0
65°	400.0	474.1	577.8	651.9	679.4
67.5°	355.6	438.1	531.2	584.1	598.9
70°	309.0	395.8	476.2	507.9	514.3
72.5°	266.7	353.4	416.9	431.7	433.9
75°	224.3	309.0	351.3	351.3	342.9
77.5°	186.2	258.2	279.4	262.4	247.6
80°	143.9	198.9	201.1	163.0	141.8
82.5°	103.7	141.8	124.9	97.4	86.8
85°	63.5	84.7	67.7	57.1	52.9
87.5°	23.3	27.5	23.3	25.4	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)