

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: P189506

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34939)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WS-5L30-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 5 (845 mA)
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

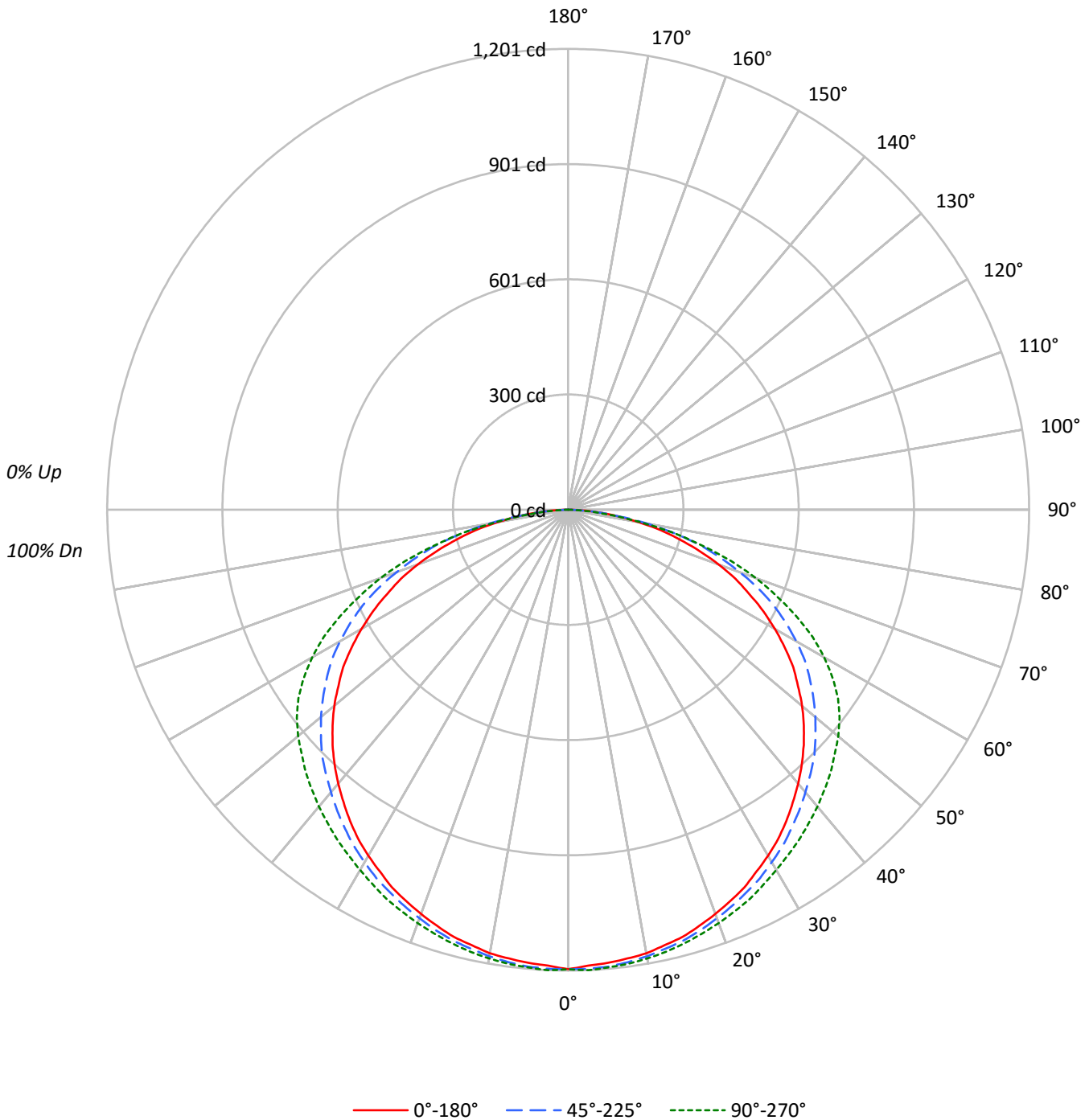
Lumens per Lamp: N/A
Luminaire Lumens: 4014.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.36 / 1.47
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

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	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	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	47
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	24	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3835	3835	3835
5°	3812	3843	3849
10°	3818	3843	3862
15°	3821	3854	3879
20°	3821	3861	3908
25°	3838	3886	3955
30°	3851	3923	4009
35°	3873	3964	4101
40°	3897	4019	4223
45°	3930	4107	4380
50°	3964	4188	4576
55°	3996	4290	4791
60°	3985	4396	4934
65°	3946	4478	4965
70°	3907	4455	4876
75°	3741	4391	4464
80°	3417	3812	3596
85°	2796	2723	2366



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.5	2.8
10°-20°	328.1	8.2
20°-30°	508.0	12.7
30°-40°	636.9	15.9
40°-50°	703.2	17.5
50°-60°	693.1	17.3
60°-70°	581.4	14.5
70°-80°	359.9	9.0
80°-90°	90.1	2.2
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°	949.5	23.7
0°-40°	1586.4	39.5
0°-60°	2982.7	74.3
0°-90°	4014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4014.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1197	1197	1197	1197	1197	
5°	1186	1190	1195	1197	1197	113
15°	1152	1154	1162	1168	1170	325
25°	1086	1088	1100	1114	1119	500
35°	991	994	1014	1037	1049	620
45°	868	876	907	944	967	669
55°	716	725	768	825	858	637
65°	521	546	591	636	655	516
75°	302	334	355	355	361	319
85°	76	86	74	64	64	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1197.4	1197.4	1197.4	1197.4	1197.4
2.5°	1189.6	1193.5	1197.4	1201.3	1201.3
5°	1185.7	1189.6	1195.4	1197.4	1197.4
7.5°	1179.8	1183.7	1189.6	1191.5	1193.5
10°	1174.0	1175.9	1181.8	1185.7	1187.6
12.5°	1162.3	1166.2	1172.0	1177.9	1179.8
15°	1152.5	1154.5	1162.3	1168.1	1170.1
17.5°	1136.9	1140.8	1148.6	1156.4	1158.4
20°	1121.3	1123.3	1133.0	1142.8	1146.7
22.5°	1103.7	1107.6	1117.4	1129.1	1133.0
25°	1086.2	1088.1	1099.8	1113.5	1119.4
27.5°	1062.8	1068.6	1082.3	1094.0	1101.8
30°	1041.3	1045.2	1060.8	1076.4	1084.2
32.5°	1017.9	1021.8	1039.4	1058.9	1066.7
35°	990.6	994.5	1014.0	1037.4	1049.1
37.5°	961.4	967.2	988.7	1016.0	1029.6
40°	932.1	938.0	961.4	994.5	1010.1
42.5°	900.9	906.8	934.1	971.1	988.7
45°	867.8	875.6	906.8	943.8	967.2
47.5°	832.7	842.4	873.6	920.4	941.9
50°	795.6	803.4	840.5	891.2	918.5
52.5°	754.7	766.4	805.4	861.9	891.2
55°	715.7	725.4	768.3	824.9	858.0
57.5°	668.9	684.5	731.3	785.9	817.1
60°	622.1	639.6	686.4	741.0	770.3
62.5°	573.3	594.8	639.6	692.3	717.6
65°	520.7	546.0	590.9	635.7	655.2
67.5°	471.9	495.3	536.3	571.4	587.0
70°	417.3	442.7	475.8	505.1	520.7
72.5°	358.8	390.0	415.4	431.0	444.6
75°	302.3	333.5	354.9	354.9	360.8
77.5°	247.7	271.1	282.8	278.9	282.8
80°	185.3	208.7	206.7	198.9	195.0
82.5°	128.7	144.3	136.5	124.8	120.9
85°	76.1	85.8	74.1	64.4	64.4
87.5°	31.2	33.2	23.4	17.6	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)