

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: P189542

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189542  
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-5L30-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) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3620.8 lumens  
Efficiency: N/A  
Efficacy: 92.6 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

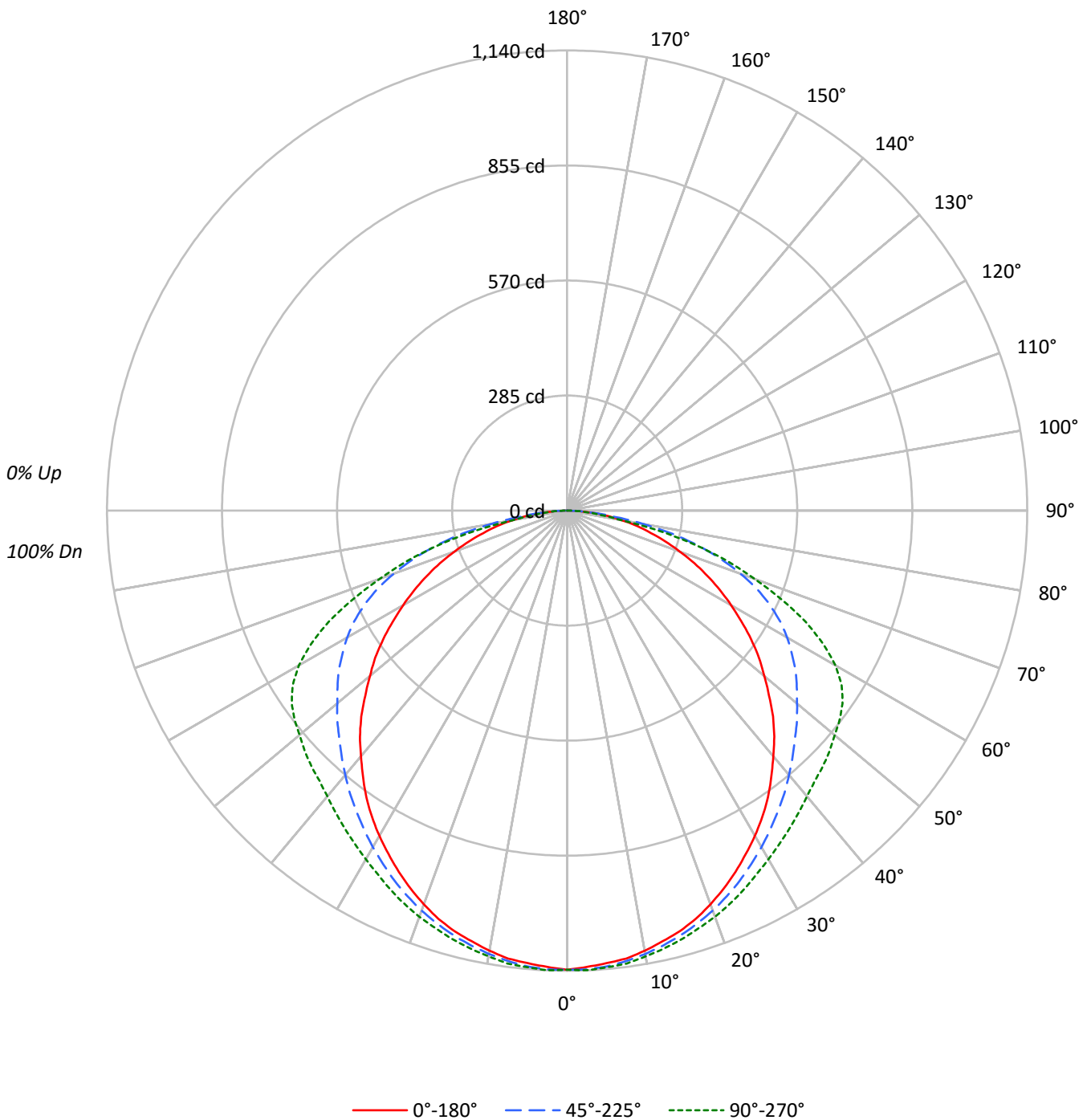
Input Watts (W): 39.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3643	3643	3643
5°	3618	3644	3651
10°	3601	3627	3647
15°	3576	3610	3644
20°	3538	3593	3649
25°	3489	3575	3661
30°	3441	3561	3689
35°	3392	3558	3757
40°	3321	3576	3864
45°	3266	3616	4058
50°	3178	3704	4312
55°	3108	3856	4650
60°	3006	4034	4918
65°	2910	4203	4941
70°	2777	4280	4623
75°	2664	4172	4072
80°	2547	3559	2510
85°	2238	2388	1867



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.5	3.0
10°-20°	307.3	8.5
20°-30°	466.3	12.9
30°-40°	571.2	15.8
40°-50°	620.5	17.1
50°-60°	617.9	17.1
60°-70°	529.5	14.6
70°-80°	323.5	8.9
80°-90°	77.0	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°	881.2	24.3
0°-40°	1452.4	40.1
0°-60°	2690.7	74.3
0°-90°	3620.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3620.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1138	1138	1138	1138	1138	
5°	1126	1130	1134	1136	1136	107
15°	1079	1081	1089	1097	1099	304
25°	987	993	1012	1028	1036	455
35°	868	878	910	945	961	542
45°	721	742	798	861	896	555
55°	557	599	691	784	833	497
65°	384	455	555	626	652	380
75°	215	297	337	337	329	229
85°	61	81	65	55	51	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1137.7	1137.7	1137.7	1137.7	1137.7
2.5°	1131.6	1133.6	1137.7	1139.7	1139.7
5°	1125.5	1129.5	1133.6	1135.6	1135.6
7.5°	1119.4	1121.4	1125.5	1129.5	1131.6
10°	1107.2	1109.2	1115.3	1121.4	1121.4
12.5°	1093.0	1097.0	1103.1	1109.2	1111.2
15°	1078.7	1080.8	1088.9	1097.0	1099.1
17.5°	1060.5	1062.5	1072.6	1082.8	1084.8
20°	1038.1	1042.2	1054.4	1064.5	1070.6
22.5°	1013.7	1017.8	1034.0	1048.3	1054.4
25°	987.3	993.4	1011.7	1028.0	1036.1
27.5°	958.9	967.0	987.3	1007.6	1015.8
30°	930.4	938.6	962.9	987.3	997.5
32.5°	900.0	910.1	936.5	965.0	979.2
35°	867.5	877.6	910.1	944.7	960.9
37.5°	830.9	847.1	883.7	924.3	942.6
40°	794.3	812.6	855.3	902.0	924.3
42.5°	759.8	778.1	826.8	881.7	908.1
45°	721.2	741.5	798.4	861.4	895.9
47.5°	678.5	707.0	772.0	843.1	881.7
50°	637.9	670.4	743.5	824.8	865.4
52.5°	599.3	635.9	717.1	806.5	851.2
55°	556.6	599.3	690.7	784.2	832.9
57.5°	511.9	562.7	660.2	757.8	806.5
60°	469.3	526.2	629.8	725.3	767.9
62.5°	426.6	493.7	595.2	682.6	715.1
65°	384.0	455.1	554.6	625.7	652.1
67.5°	341.3	420.5	509.9	560.7	574.9
70°	296.6	379.9	457.1	487.6	493.7
72.5°	256.0	339.3	400.2	414.4	416.5
75°	215.3	296.6	337.2	337.2	329.1
77.5°	178.8	247.8	268.2	251.9	237.7
80°	138.1	191.0	193.0	156.4	136.1
82.5°	99.5	136.1	119.9	93.5	83.3
85°	60.9	81.3	65.0	54.9	50.8
87.5°	22.3	26.4	22.3	24.4	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)