

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: P189560

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189560  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34865)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: BRG-WN-5L30-LD2-UNV-22-STD  
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND NANO PRISM INLAY  
LIGHT LEVEL 5 (845 mA)  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

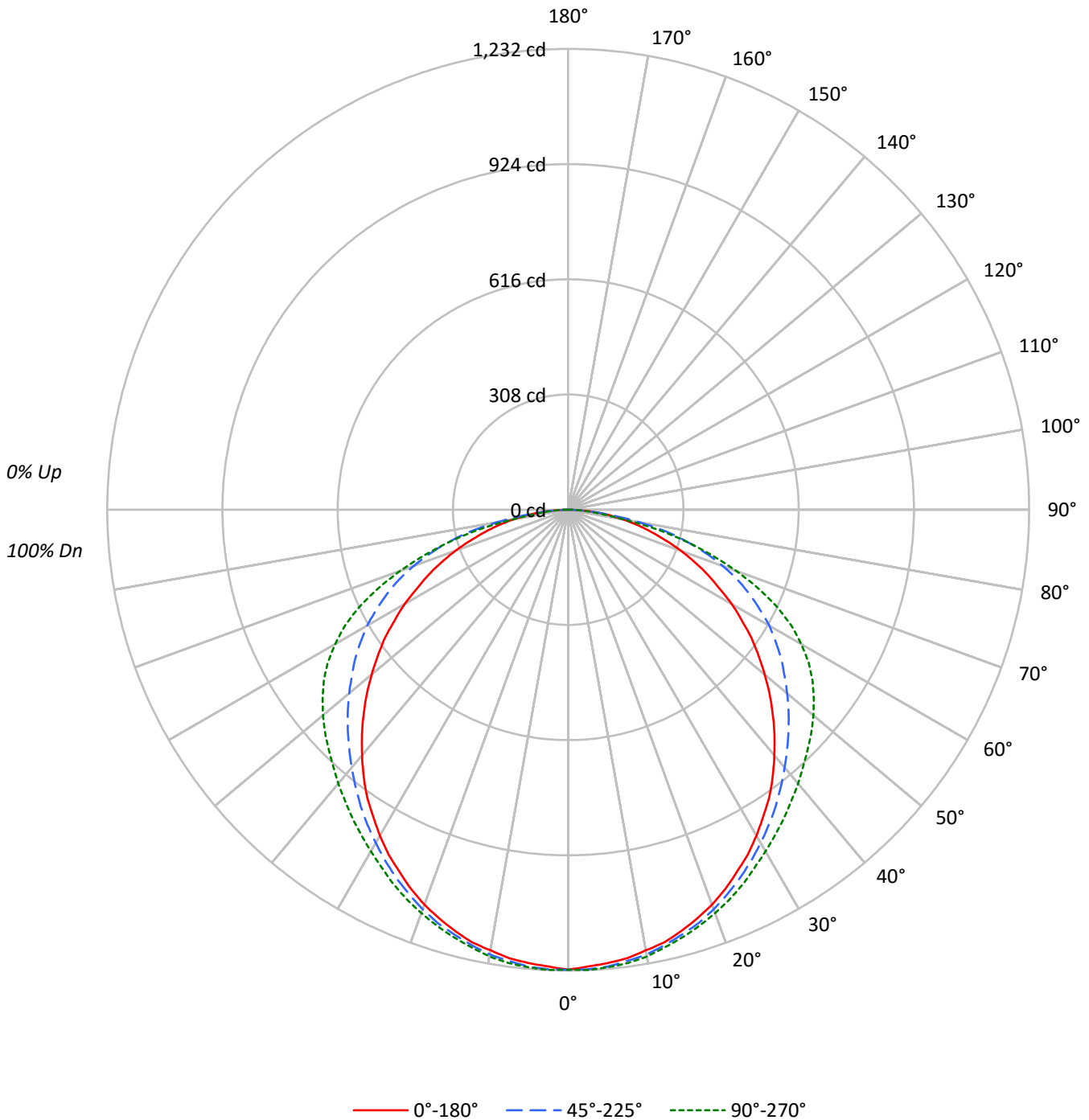
Lumens per Lamp: N/A  
Luminaire Lumens: 3741.9 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

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	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	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82				
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68				
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59	56				
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48				
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41				
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	43	38	36				
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31				
8	59	45	36	31	57	45	36	30	43	36	30	42	35	30	41	34	30	28				
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25				
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3938	3938	3938
5°	3911	3941	3947
10°	3890	3926	3944
15°	3867	3898	3923
20°	3829	3873	3911
25°	3772	3838	3904
30°	3720	3803	3899
35°	3664	3781	3933
40°	3583	3762	3996
45°	3502	3772	4101
50°	3416	3806	4261
55°	3339	3880	4452
60°	3234	3974	4606
65°	3121	4052	4673
70°	3001	4117	4466
75°	2836	4035	4011
80°	2715	3539	2783
85°	2532	2532	2054



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.2	3.1
10°-20°	331.7	8.9
20°-30°	500.7	13.4
30°-40°	606.4	16.2
40°-50°	645.8	17.3
50°-60°	621.3	16.6
60°-70°	518.7	13.9
70°-80°	320.0	8.6
80°-90°	81.1	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°	948.7	25.4
0°-40°	1555.1	41.6
0°-60°	2822.2	75.4
0°-90°	3741.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3741.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1217	1220	1226	1228	1228	116
15°	1166	1170	1176	1181	1183	329
25°	1068	1073	1086	1099	1105	492
35°	937	945	967	993	1006	585
45°	773	790	833	881	906	597
55°	598	628	695	764	797	533
65°	412	466	535	591	617	407
75°	229	291	326	328	324	244
85°	69	84	69	58	56	76
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1229.7	1229.7	1229.7	1229.7	1229.7
2.5°	1222.2	1224.1	1229.7	1231.5	1231.5
5°	1216.6	1220.4	1226.0	1227.8	1227.8
7.5°	1209.2	1211.0	1216.6	1220.4	1222.2
10°	1196.1	1199.9	1207.3	1211.0	1212.9
12.5°	1185.0	1185.0	1192.4	1198.0	1198.0
15°	1166.3	1170.1	1175.6	1181.2	1183.1
17.5°	1145.8	1149.6	1158.9	1164.5	1166.3
20°	1123.5	1127.2	1136.5	1144.0	1147.7
22.5°	1097.4	1101.1	1112.3	1123.5	1127.2
25°	1067.6	1073.2	1086.2	1099.3	1104.8
27.5°	1039.6	1043.4	1058.3	1073.2	1078.8
30°	1006.1	1011.7	1028.5	1047.1	1054.5
32.5°	970.7	980.0	998.6	1021.0	1030.3
35°	937.2	944.6	967.0	993.1	1006.1
37.5°	898.0	907.4	933.4	965.1	980.0
40°	857.0	868.2	899.9	935.3	955.8
42.5°	816.1	831.0	866.4	909.2	929.7
45°	773.2	790.0	832.8	881.3	905.5
47.5°	730.4	750.8	799.3	853.3	881.3
50°	685.6	709.9	763.9	825.4	855.2
52.5°	640.9	668.9	728.5	793.7	827.2
55°	598.1	627.9	695.0	763.9	797.4
57.5°	549.6	585.0	657.7	726.6	762.0
60°	504.9	545.9	620.4	687.5	719.2
62.5°	454.6	506.8	577.6	644.6	672.6
65°	411.8	465.8	534.7	590.6	616.7
67.5°	365.2	422.9	490.0	534.7	549.6
70°	320.5	380.1	439.7	469.5	477.0
72.5°	273.9	337.2	385.7	402.4	400.6
75°	229.2	290.7	326.1	327.9	324.2
77.5°	188.2	242.2	266.4	251.5	244.1
80°	147.2	190.0	191.9	167.7	150.9
82.5°	108.1	137.9	123.0	100.6	91.3
85°	68.9	83.8	68.9	57.8	55.9
87.5°	29.8	33.5	26.1	24.2	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)