

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: P189555

Luminaire Tested: **BRG-WD-6L40-LD2-UNV-22-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189555  
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-6L40-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) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

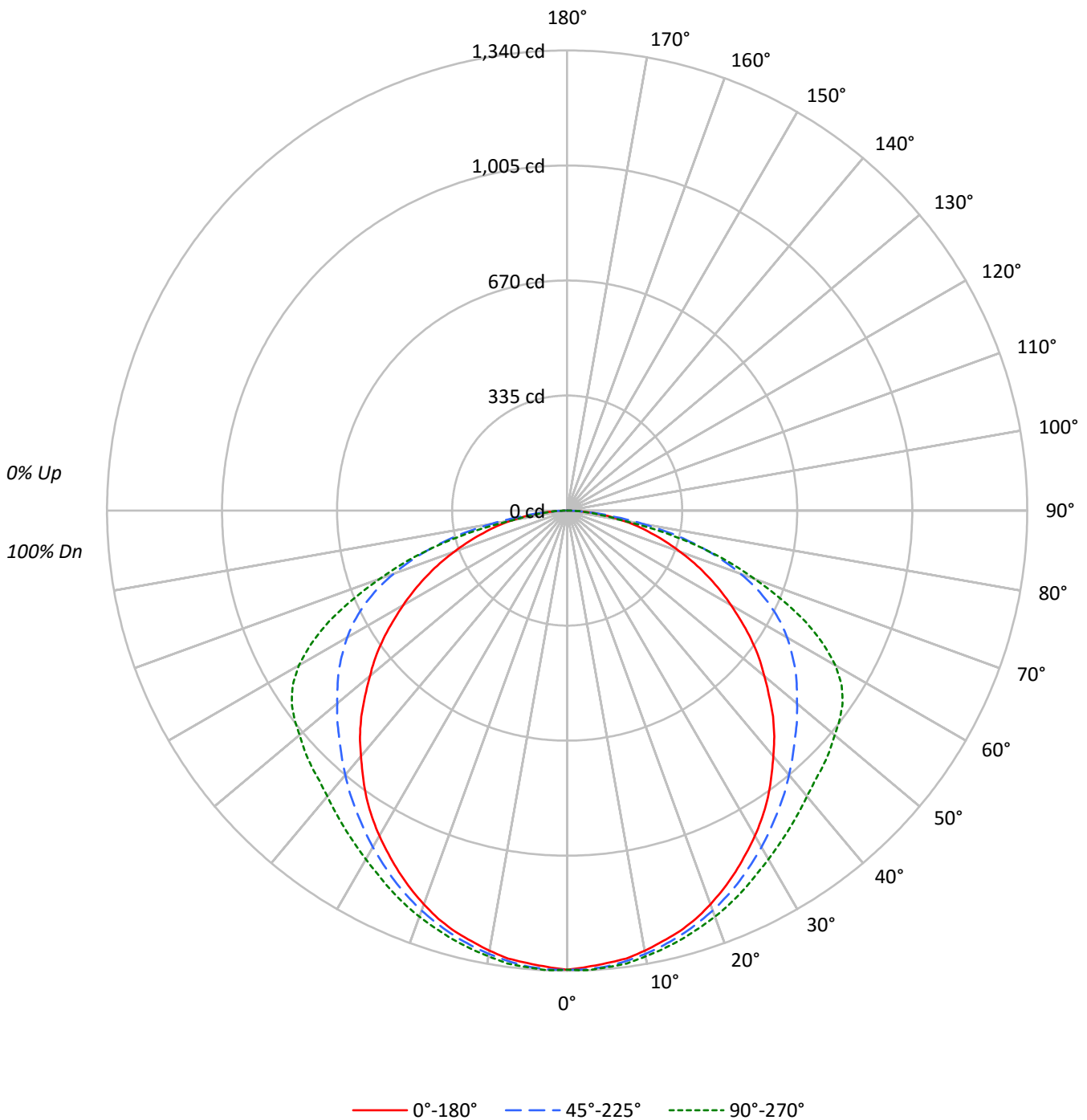
Lumens per Lamp: N/A  
Luminaire Lumens: 4256.0 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.42  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 45.7  
Input Voltage (V): NR  
Input Current (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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	108	103	98	94	105	101	96	93	96	93	90	92	89	87	89	86	84	82					82			
2	97	89	81	75	95	87	80	74	83	77	73	80	75	71	77	73	69	67					67			
3	88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56					56			
4	81	68	59	52	78	67	58	51	64	56	50	62	55	50	59	54	49	47					47			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40					40			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35					35			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	30					30			
8	59	45	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29	27					27			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24					24			
10	51	38	29	24	50	37	29	24	36	29	24	35	28	24	34	28	24	22					22			

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

	0°	45°	90°
0°	4282	4282	4282
5°	4253	4284	4291
10°	4232	4263	4286
15°	4204	4243	4283
20°	4158	4224	4289
25°	4101	4202	4304
30°	4044	4186	4336
35°	3987	4182	4416
40°	3903	4203	4542
45°	3839	4250	4770
50°	3736	4354	5068
55°	3653	4533	5467
60°	3533	4742	5781
65°	3420	4940	5808
70°	3264	5031	5434
75°	3132	4905	4786
80°	2995	4185	2951
85°	2631	2807	2194



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.4	3.0
10°-20°	361.2	8.5
20°-30°	548.1	12.9
30°-40°	671.4	15.8
40°-50°	729.3	17.1
50°-60°	726.3	17.1
60°-70°	622.4	14.6
70°-80°	380.3	8.9
80°-90°	90.6	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°	1035.8	24.3
0°-40°	1707.2	40.1
0°-60°	3162.8	74.3
0°-90°	4256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4256.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1337	1337	1337	1337	1337	
5°	1323	1328	1332	1335	1335	126
15°	1268	1270	1280	1290	1292	357
25°	1160	1168	1189	1208	1218	535
35°	1020	1032	1070	1110	1130	637
45°	848	872	938	1012	1053	652
55°	654	704	812	922	979	584
65°	451	535	652	736	766	446
75°	253	349	396	396	387	269
85°	72	96	76	64	60	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1337.2	1337.2	1337.2	1337.2	1337.2
2.5°	1330.1	1332.5	1337.2	1339.6	1339.6
5°	1322.9	1327.7	1332.5	1334.9	1334.9
7.5°	1315.8	1318.1	1322.9	1327.7	1330.1
10°	1301.4	1303.8	1311.0	1318.1	1318.1
12.5°	1284.7	1289.5	1296.7	1303.8	1306.2
15°	1268.0	1270.4	1279.9	1289.5	1291.9
17.5°	1246.5	1248.9	1260.8	1272.8	1275.2
20°	1220.2	1225.0	1239.3	1251.3	1258.4
22.5°	1191.6	1196.4	1215.5	1232.2	1239.3
25°	1160.5	1167.7	1189.2	1208.3	1217.9
27.5°	1127.1	1136.7	1160.5	1184.4	1194.0
30°	1093.7	1103.2	1131.9	1160.5	1172.5
32.5°	1057.9	1069.8	1100.8	1134.3	1151.0
35°	1019.7	1031.6	1069.8	1110.4	1129.5
37.5°	976.7	995.8	1038.8	1086.5	1108.0
40°	933.7	955.2	1005.3	1060.2	1086.5
42.5°	893.1	914.6	971.9	1036.4	1067.4
45°	847.7	871.6	938.5	1012.5	1053.1
47.5°	797.6	831.0	907.4	991.0	1036.4
50°	749.8	788.0	874.0	969.5	1017.3
52.5°	704.4	747.4	842.9	948.0	1000.5
55°	654.3	704.4	811.9	921.7	979.1
57.5°	601.8	661.5	776.1	890.7	948.0
60°	551.6	618.5	740.3	852.5	902.6
62.5°	501.5	580.3	699.7	802.3	840.6
65°	451.3	534.9	651.9	735.5	766.5
67.5°	401.2	494.3	599.4	659.1	675.8
70°	348.6	446.5	537.3	573.1	580.3
72.5°	300.9	398.8	470.4	487.1	489.5
75°	253.1	348.6	396.4	396.4	386.8
77.5°	210.1	291.3	315.2	296.1	279.4
80°	162.4	224.5	226.9	183.9	160.0
82.5°	117.0	160.0	140.9	109.8	97.9
85°	71.6	95.5	76.4	64.5	59.7
87.5°	26.3	31.0	26.3	28.7	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)