

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: P189669

Luminaire Tested: **BRG-WG-1L35-LD2-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189669  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34874)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: BRG-WG-1L35-LD2-UNV-24-STD  
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND  
RECTANGULAR PERF INLAY  
LIGHT LEVEL 1 (615 mA)  
Light Source: (308) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

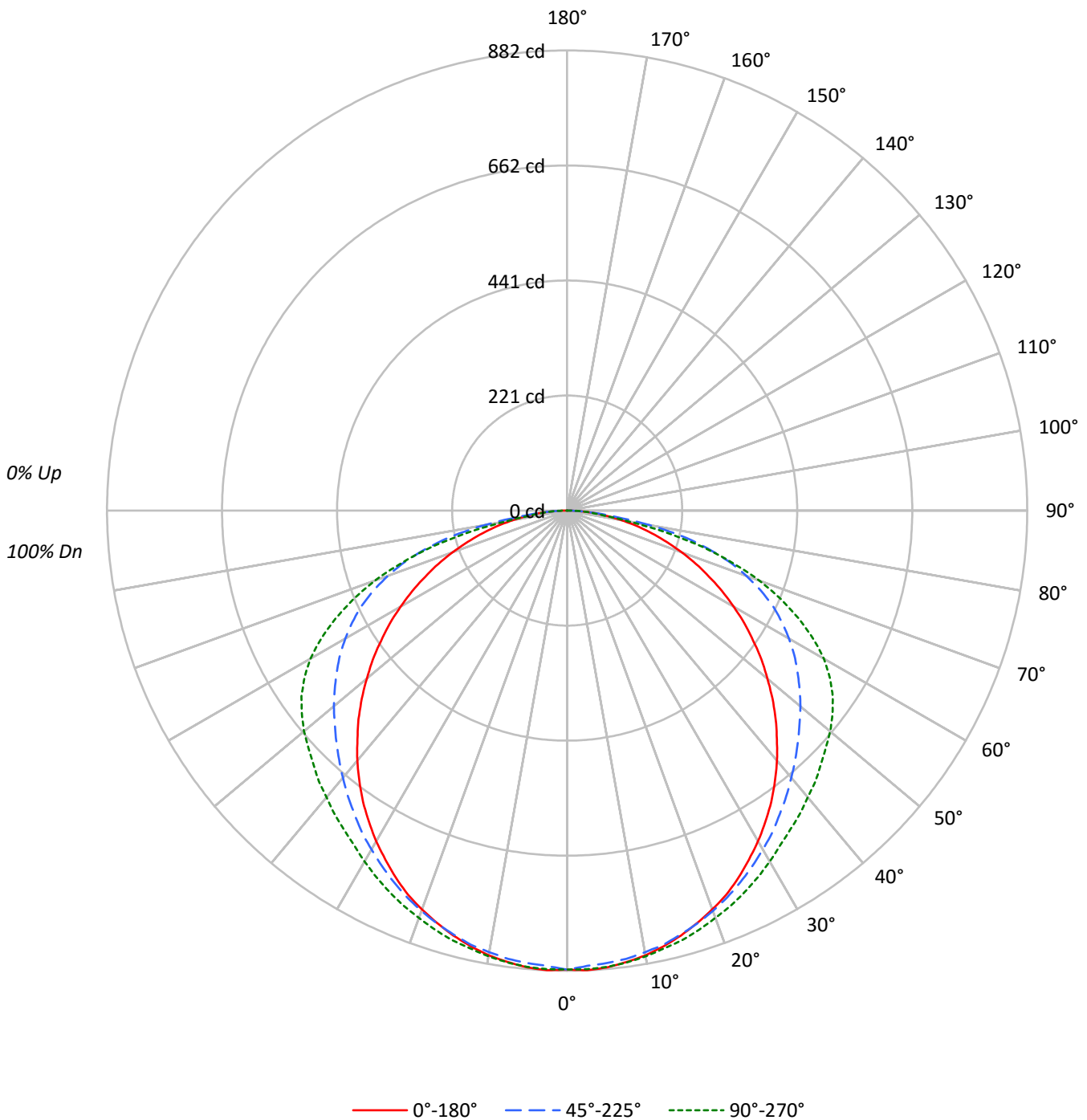
Lumens per Lamp: N/A  
Luminaire Lumens: 2837.8 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.42  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 27.1  
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	100	96	92	96	93	89		92	89	87		88	86	84	82
2	97	88	81	75	95	87	80	74	83	77	72		80	75	71		76	73	69	67
3	88	77	68	61	86	75	67	61	72	65	60		69	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	72	59	50	44	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	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33		45	38	33		43	37	32	30
8	58	44	36	30	57	44	35	29	42	35	29		41	34	29		40	34	29	27
9	55	41	32	26	53	40	32	26	39	31	26		38	31	26		37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	24		34	28	23	22

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

	0°	45°	90°
0°	1348	1348	1348
5°	1351	1339	1350
10°	1346	1337	1349
15°	1337	1334	1351
20°	1326	1331	1354
25°	1313	1328	1363
30°	1294	1327	1374
35°	1275	1328	1395
40°	1251	1337	1435
45°	1225	1355	1490
50°	1194	1391	1569
55°	1164	1439	1660
60°	1129	1504	1741
65°	1088	1579	1775
70°	1047	1636	1755
75°	991	1643	1582
80°	927	1423	1044
85°	844	879	789



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.2	2.9
10°-20°	238.7	8.4
20°-30°	363.9	12.8
30°-40°	446.4	15.7
40°-50°	484.2	17.1
50°-60°	477.9	16.8
60°-70°	412.5	14.5
70°-80°	264.4	9.3
80°-90°	66.5	2.3
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°	685.9	24.2
0°-40°	1132.3	39.9
0°-60°	2094.4	73.8
0°-90°	2837.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2837.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	879	877	871	877	878	83
15°	843	843	841	850	852	238
25°	777	779	786	801	806	358
35°	682	689	710	737	746	426
45°	566	584	626	670	688	436
55°	436	474	539	597	622	390
65°	300	364	436	479	490	298
75°	167	250	278	274	267	178
85°	48	74	50	46	45	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	879.8	879.8	879.8	879.8	879.8
2.5°	881.9	879.8	873.7	879.8	879.8
5°	878.8	876.8	870.6	876.8	877.8
7.5°	872.7	871.7	866.6	872.7	873.7
10°	865.5	864.5	859.4	866.6	867.6
12.5°	855.3	854.3	852.3	859.4	859.4
15°	843.1	843.1	841.0	850.2	852.3
17.5°	828.8	829.8	829.8	840.0	842.1
20°	813.5	814.5	816.5	827.8	830.8
22.5°	797.1	797.1	802.2	815.5	819.6
25°	776.7	778.8	785.9	801.2	806.3
27.5°	754.3	758.4	768.6	785.9	792.0
30°	731.8	736.9	750.2	769.6	776.7
32.5°	707.3	713.5	731.8	753.3	760.4
35°	681.8	689.0	710.4	736.9	746.1
37.5°	654.3	663.4	690.0	720.6	732.8
40°	625.7	637.9	668.5	703.2	717.5
42.5°	595.1	611.4	647.1	686.9	704.3
45°	565.5	583.8	625.7	669.6	687.9
47.5°	533.8	557.3	604.2	652.2	672.6
50°	501.2	527.7	583.8	635.9	658.3
52.5°	469.5	501.2	561.4	617.5	641.0
55°	435.8	473.6	538.9	597.1	621.6
57.5°	403.2	447.1	516.5	574.6	597.1
60°	368.5	418.5	490.9	548.1	568.5
62.5°	334.8	393.0	464.4	515.4	531.8
65°	300.1	364.4	435.8	478.7	489.9
67.5°	267.4	337.8	402.1	435.8	443.0
70°	233.7	310.3	365.4	389.9	391.9
72.5°	200.1	279.7	325.6	331.7	331.7
75°	167.4	250.1	277.6	273.5	267.4
77.5°	136.8	213.3	224.5	207.2	193.9
80°	105.1	175.6	161.3	130.6	118.4
82.5°	75.5	130.6	94.9	74.5	70.4
85°	48.0	74.5	50.0	45.9	44.9
87.5°	22.5	27.6	22.5	24.5	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)