

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: P189597

Luminaire Tested: **BRG-WG-4L35-LD2-UNV-14-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34883)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WG-4L35-LD2-UNV-14-STD
Description: BRIDGE 1x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND
RECTANGULAR PERF INLAY
LIGHT LEVEL 4 (1100 mA)
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

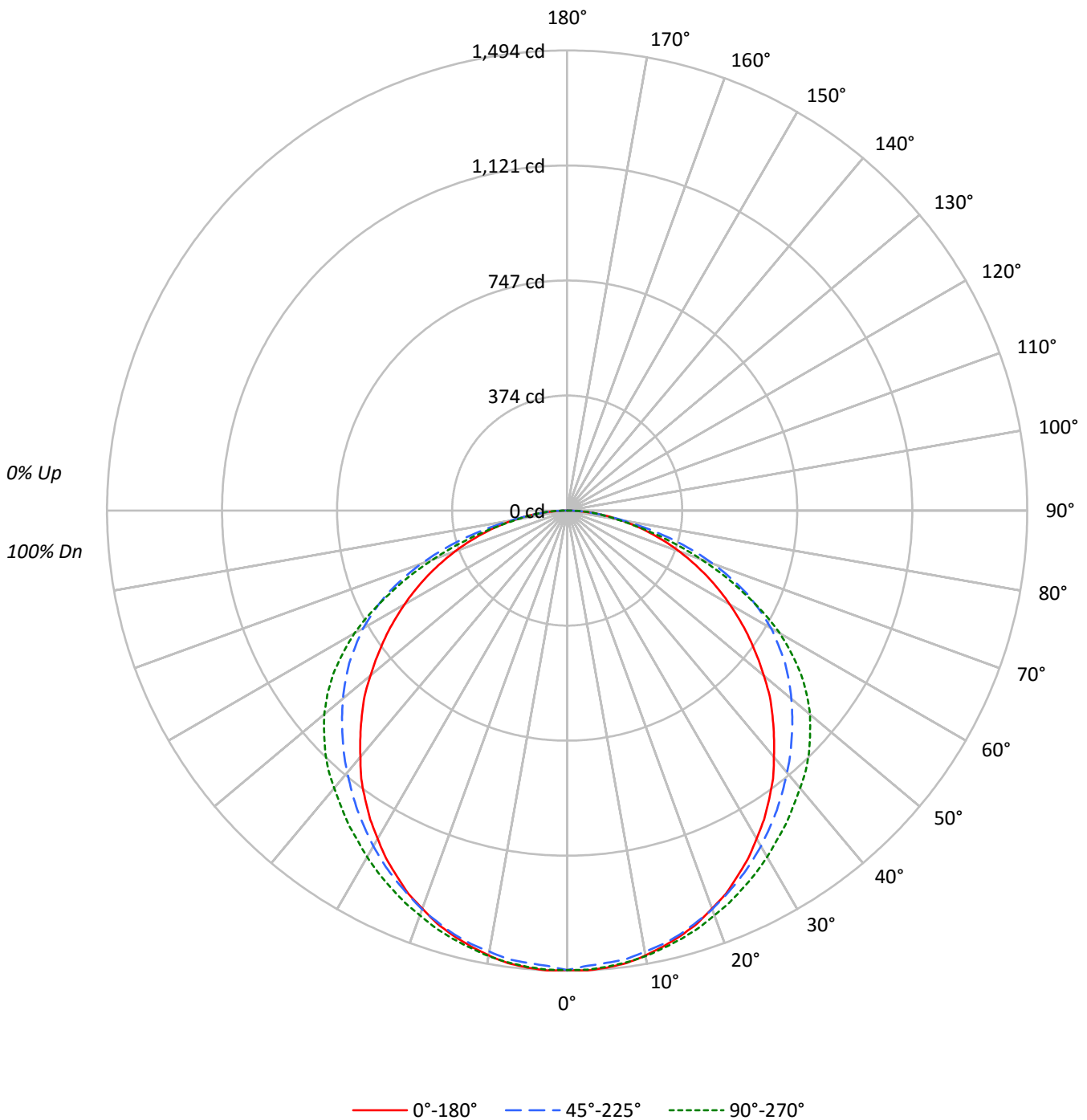
Lumens per Lamp: N/A
Luminaire Lumens: 4493.5 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.4
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 50.2
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	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	57	51		61	55	51	48
5	75	62	52	46	73	60	52	45	58	51	45		56	50	44		54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34		46	39	34		45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28		39	32	27		38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4570	4570	4570
5°	4580	4533	4572
10°	4562	4522	4569
15°	4530	4514	4562
20°	4482	4490	4557
25°	4424	4467	4570
30°	4351	4450	4594
35°	4277	4438	4638
40°	4177	4441	4705
45°	4085	4470	4812
50°	3973	4530	4905
55°	3855	4615	4954
60°	3737	4687	4889
65°	3610	4698	4587
70°	3460	4507	4143
75°	3278	4061	3520
80°	3048	3272	2870
85°	2770	2678	2857



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	3.1
10°-20°	403.6	9.0
20°-30°	612.3	13.6
30°-40°	745.2	16.6
40°-50°	795.0	17.7
50°-60°	754.0	16.8
60°-70°	601.9	13.4
70°-80°	346.7	7.7
80°-90°	93.6	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°	1157.0	25.7
0°-40°	1902.3	42.3
0°-60°	3451.2	76.8
0°-90°	4493.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4493.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1492	1492	1492	1492	1492	
5°	1489	1487	1474	1487	1487	141
15°	1428	1428	1423	1438	1438	403
25°	1309	1314	1322	1347	1352	603
35°	1144	1156	1187	1228	1240	715
45°	943	971	1032	1090	1111	727
55°	722	778	864	915	928	646
65°	498	587	648	643	633	493
75°	277	374	343	310	297	294
85°	79	84	76	79	81	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1491.9	1491.9	1491.9	1491.9	1491.9
2.5°	1494.4	1491.9	1479.2	1491.9	1491.9
5°	1489.3	1486.8	1474.1	1486.8	1486.8
7.5°	1481.7	1479.2	1469.0	1479.2	1479.2
10°	1466.5	1463.9	1453.8	1469.0	1469.0
12.5°	1448.7	1448.7	1441.1	1453.8	1453.8
15°	1428.4	1428.4	1423.3	1438.5	1438.5
17.5°	1405.5	1402.9	1400.4	1418.2	1420.7
20°	1375.0	1375.0	1377.5	1395.3	1397.9
22.5°	1347.0	1347.0	1349.6	1372.4	1377.5
25°	1308.9	1314.0	1321.6	1347.0	1352.1
27.5°	1273.3	1275.9	1291.1	1319.1	1326.7
30°	1230.1	1240.3	1258.1	1288.6	1298.7
32.5°	1189.4	1199.6	1222.5	1258.1	1268.2
35°	1143.7	1156.4	1186.9	1227.6	1240.3
37.5°	1098.0	1110.7	1148.8	1194.5	1207.2
40°	1044.6	1067.5	1110.7	1158.9	1176.7
42.5°	993.7	1019.2	1072.5	1125.9	1146.2
45°	942.9	970.9	1031.9	1090.3	1110.7
47.5°	892.1	922.6	991.2	1052.2	1070.0
50°	833.6	874.3	950.5	1009.0	1029.3
52.5°	777.7	826.0	907.3	965.8	981.0
55°	721.8	777.7	864.1	915.0	927.7
57.5°	665.9	729.4	813.3	856.5	864.1
60°	610.0	681.1	765.0	793.0	798.0
62.5°	554.1	635.4	706.6	721.8	719.3
65°	498.1	587.1	648.1	643.0	632.8
67.5°	442.2	536.3	576.9	559.1	551.5
70°	386.3	485.4	503.2	475.3	462.6
72.5°	332.9	432.1	424.4	391.4	378.7
75°	277.0	373.6	343.1	310.1	297.4
77.5°	226.2	310.1	259.2	228.7	221.1
80°	172.8	236.4	185.5	165.2	162.7
82.5°	124.5	157.6	122.0	119.5	119.5
85°	78.8	83.9	76.2	78.8	81.3
87.5°	35.6	38.1	40.7	40.7	43.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)