

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: P189603

Luminaire Tested: **BRG-WG-5L40-LD2-UNV-14-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189603
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-5L40-LD2-UNV-14-STD
Description: BRIDGE 1x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND
RECTANGULAR PERF INLAY
LIGHT LEVEL 5 (1285 mA)
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

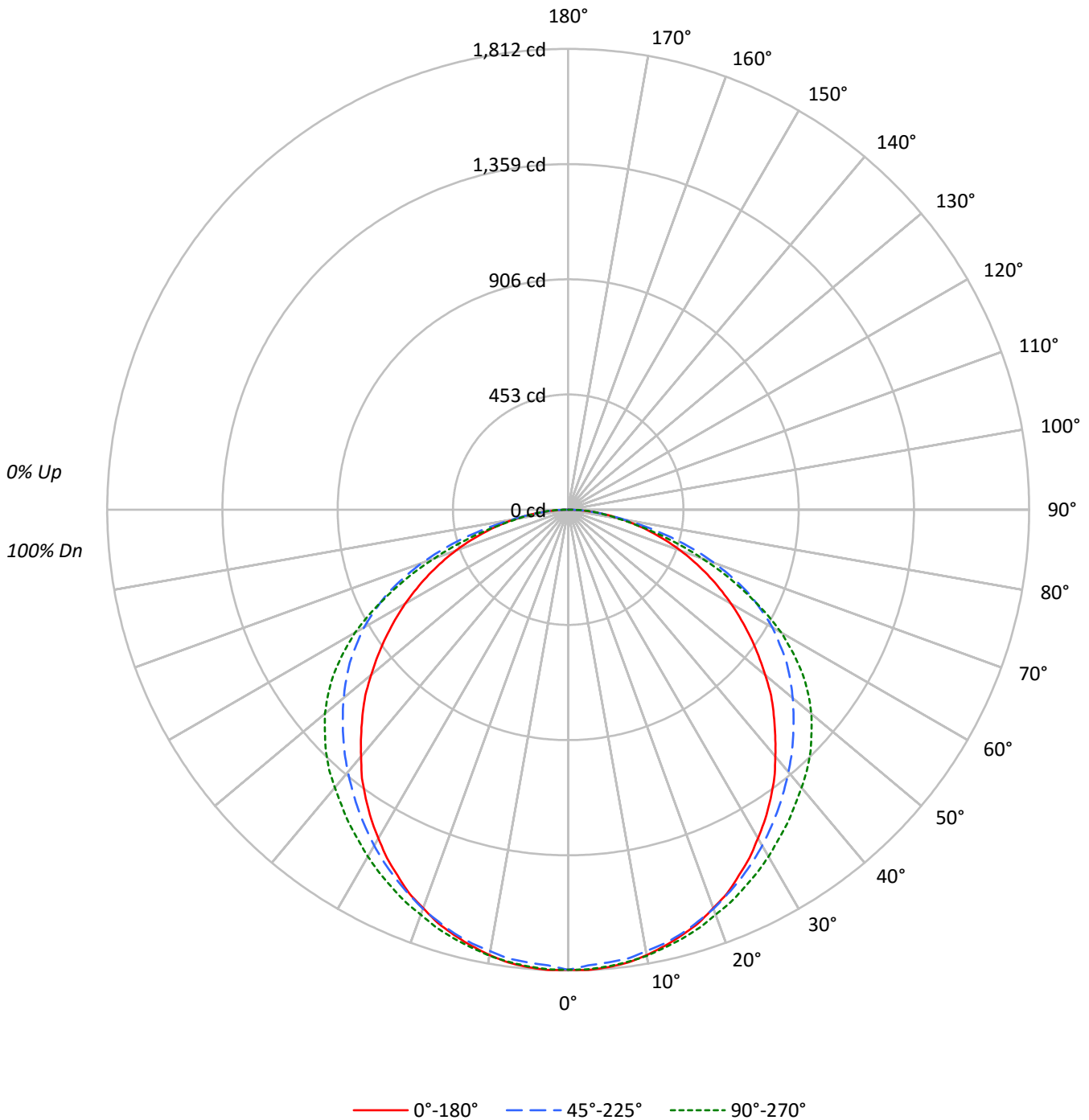
Lumens per Lamp: N/A
Luminaire Lumens: 5447.9 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.4
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 62.5
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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57					57			
4	81	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48					48			
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42					42			
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36					36			
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32					32			
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28					28			
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25					25			
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5541	5541	5541
5°	5552	5496	5543
10°	5530	5483	5540
15°	5492	5472	5531
20°	5434	5444	5525
25°	5364	5416	5541
30°	5275	5395	5570
35°	5185	5381	5623
40°	5064	5385	5705
45°	4952	5419	5834
50°	4817	5492	5947
55°	4674	5595	6007
60°	4531	5682	5928
65°	4378	5696	5562
70°	4195	5464	5023
75°	3976	4924	4267
80°	3696	3967	3479
85°	3357	3248	3465



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.0	3.1
10°-20°	489.4	9.0
20°-30°	742.4	13.6
30°-40°	903.5	16.6
40°-50°	963.8	17.7
50°-60°	914.2	16.8
60°-70°	729.8	13.4
70°-80°	420.4	7.7
80°-90°	113.5	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°	1402.8	25.7
0°-40°	2306.3	42.3
0°-60°	4184.2	76.8
0°-90°	5447.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5447.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1809	1809	1809	1809	1809	
5°	1806	1803	1787	1803	1803	172
15°	1732	1732	1726	1744	1744	488
25°	1587	1593	1602	1633	1639	732
35°	1387	1402	1439	1488	1504	867
45°	1143	1177	1251	1322	1347	882
55°	875	943	1048	1109	1125	783
65°	604	712	786	780	767	598
75°	336	453	416	376	360	357
85°	96	102	92	96	99	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1808.8	1808.8	1808.8	1808.8	1808.8
2.5°	1811.9	1808.8	1793.4	1808.8	1808.8
5°	1805.7	1802.6	1787.2	1802.6	1802.6
7.5°	1796.4	1793.4	1781.0	1793.4	1793.4
10°	1778.0	1774.9	1762.6	1781.0	1781.0
12.5°	1756.4	1756.4	1747.1	1762.6	1762.6
15°	1731.7	1731.7	1725.6	1744.1	1744.1
17.5°	1704.0	1700.9	1697.8	1719.4	1722.5
20°	1667.0	1667.0	1670.1	1691.7	1694.8
22.5°	1633.1	1633.1	1636.2	1663.9	1670.1
25°	1586.9	1593.1	1602.3	1633.1	1639.3
27.5°	1543.8	1546.9	1565.3	1599.2	1608.5
30°	1491.4	1503.7	1525.3	1562.3	1574.6
32.5°	1442.1	1454.4	1482.1	1525.3	1537.6
35°	1386.6	1402.0	1439.0	1488.3	1503.7
37.5°	1331.2	1346.6	1392.8	1448.3	1463.7
40°	1266.4	1294.2	1346.6	1405.1	1426.7
42.5°	1204.8	1235.6	1300.3	1365.1	1389.7
45°	1143.2	1177.1	1251.0	1321.9	1346.6
47.5°	1081.6	1118.5	1201.7	1275.7	1297.3
50°	1010.7	1060.0	1152.4	1223.3	1248.0
52.5°	942.9	1001.4	1100.1	1170.9	1189.4
55°	875.1	942.9	1047.7	1109.3	1124.7
57.5°	807.3	884.4	986.0	1038.4	1047.7
60°	739.5	825.8	927.5	961.4	967.6
62.5°	671.7	770.3	856.6	875.1	872.0
65°	604.0	711.8	785.8	779.6	767.3
67.5°	536.2	650.2	699.5	677.9	668.7
70°	468.4	588.5	610.1	576.2	560.8
72.5°	403.7	523.8	514.6	474.5	459.1
75°	335.9	453.0	416.0	375.9	360.5
77.5°	274.2	375.9	314.3	277.3	268.1
80°	209.5	286.6	224.9	200.3	197.2
82.5°	151.0	191.0	147.9	144.8	144.8
85°	95.5	101.7	92.4	95.5	98.6
87.5°	43.1	46.2	49.3	49.3	52.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)