

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: P189697

Luminaire Tested: **BRG-WN-4L30-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34876)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WN-4L30-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND NANO PRISM INLAY
LIGHT LEVEL 4 (1260 mA)
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

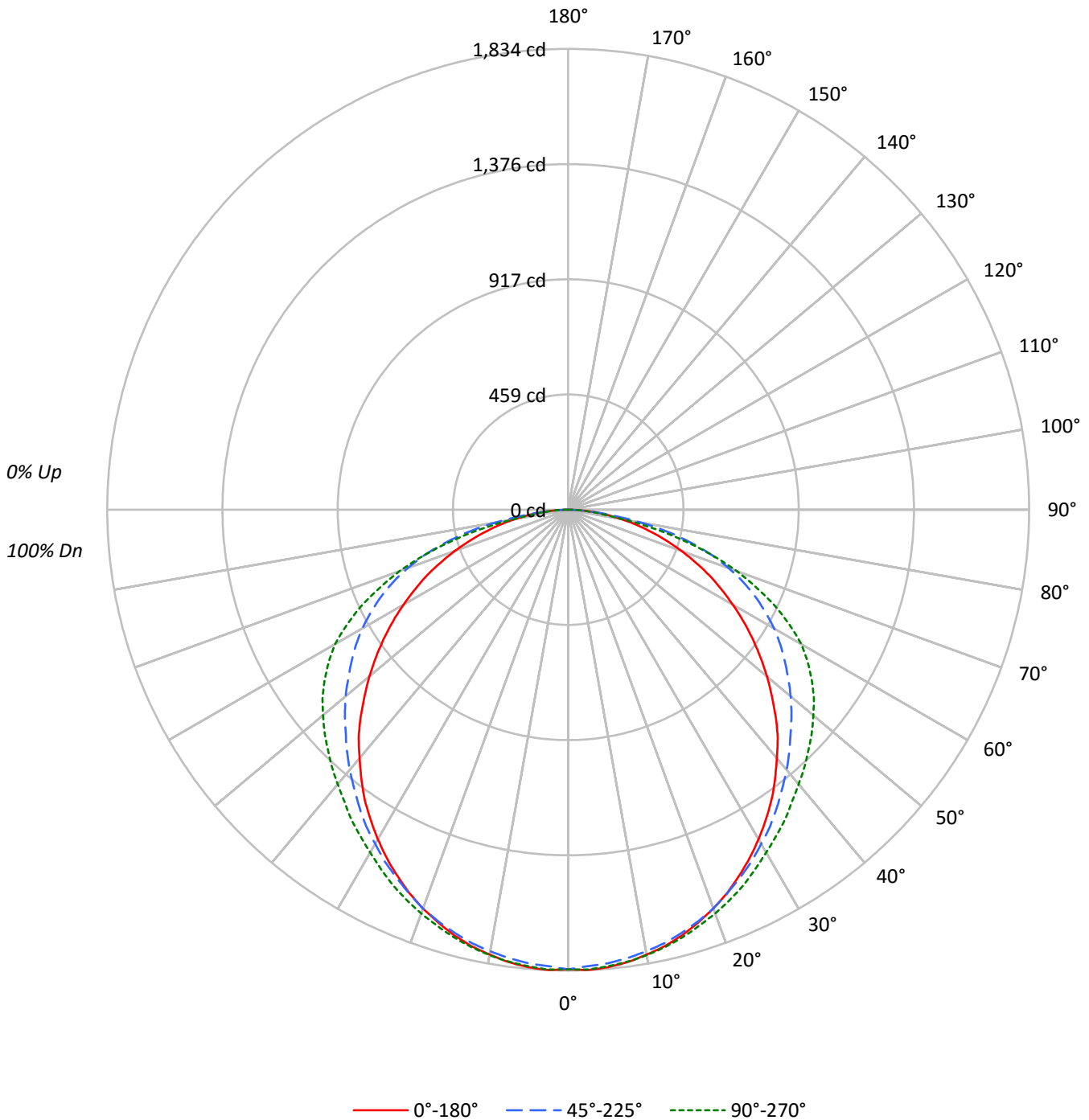
Lumens per Lamp: N/A
Luminaire Lumens: 5633.5 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82					82			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	68					68			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56					56			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	47					47			
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41					41			
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	49	42	38	35					35			
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28					28			
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25					25			
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2802	2802	2802
5°	2810	2786	2804
10°	2797	2776	2800
15°	2780	2765	2793
20°	2752	2752	2787
25°	2718	2731	2787
30°	2678	2716	2785
35°	2637	2707	2813
40°	2581	2703	2851
45°	2529	2711	2928
50°	2460	2754	3034
55°	2390	2809	3160
60°	2316	2898	3282
65°	2251	2982	3294
70°	2149	3044	3193
75°	2029	2979	2829
80°	1901	2591	1970
85°	1720	1652	1411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.0	3.1
10°-20°	494.7	8.8
20°-30°	748.8	13.3
30°-40°	909.2	16.1
40°-50°	970.9	17.2
50°-60°	936.9	16.6
60°-70°	786.5	14.0
70°-80°	489.9	8.7
80°-90°	123.5	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°	1416.5	25.1
0°-40°	2325.8	41.3
0°-60°	4233.5	75.1
0°-90°	5633.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5633.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1830	1830	1830	1830	1830	
5°	1828	1824	1812	1824	1824	174
15°	1753	1751	1744	1759	1761	494
25°	1608	1610	1616	1642	1649	741
35°	1410	1418	1448	1487	1504	881
45°	1168	1193	1252	1322	1352	900
55°	895	952	1052	1146	1183	801
65°	621	715	823	887	909	612
75°	343	468	503	492	478	363
85°	98	137	94	82	80	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1829.6	1829.6	1829.6	1829.6	1829.6
2.5°	1833.6	1829.6	1817.9	1829.6	1831.6
5°	1827.7	1823.8	1812.0	1823.8	1823.8
7.5°	1815.9	1812.0	1800.3	1814.0	1814.0
10°	1798.3	1796.3	1784.6	1800.3	1800.3
12.5°	1778.7	1776.8	1767.0	1782.6	1782.6
15°	1753.2	1751.3	1743.5	1759.1	1761.1
17.5°	1721.9	1721.9	1718.0	1733.7	1735.6
20°	1688.6	1688.6	1688.6	1708.2	1710.2
22.5°	1651.4	1649.4	1653.3	1674.9	1680.8
25°	1608.3	1610.2	1616.1	1641.6	1649.4
27.5°	1563.2	1567.1	1578.9	1606.3	1612.2
30°	1514.3	1520.1	1535.8	1567.1	1575.0
32.5°	1463.3	1471.2	1494.7	1526.0	1539.7
35°	1410.4	1418.3	1447.7	1486.8	1504.5
37.5°	1351.7	1363.4	1398.7	1447.7	1463.3
40°	1290.9	1308.6	1351.7	1404.6	1426.1
42.5°	1234.1	1251.8	1302.7	1363.4	1390.8
45°	1167.5	1193.0	1251.8	1322.3	1351.7
47.5°	1099.0	1134.2	1204.7	1279.2	1314.4
50°	1032.4	1071.5	1155.8	1238.0	1273.3
52.5°	963.8	1014.7	1102.9	1193.0	1232.2
55°	895.2	952.0	1051.9	1146.0	1183.2
57.5°	826.7	897.2	1001.0	1093.1	1130.3
60°	756.1	836.5	946.2	1034.3	1071.5
62.5°	687.6	775.7	885.4	965.8	993.2
65°	621.0	715.0	822.8	887.4	908.9
67.5°	548.5	656.2	754.2	803.2	811.0
70°	479.9	597.5	679.8	707.2	713.1
72.5°	409.4	536.7	597.5	601.4	597.5
75°	342.8	468.2	503.4	491.7	478.0
77.5°	278.2	397.7	405.5	368.3	354.6
80°	215.5	321.3	293.8	246.8	223.3
82.5°	152.8	237.0	182.2	145.0	135.2
85°	97.9	137.1	94.0	82.3	80.3
87.5°	45.1	50.9	39.2	35.3	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)