

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: P189668

Luminaire Tested: **BRG-WG-5L30-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189668
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-5L30-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND
RECTANGULAR PERF INLAY
LIGHT LEVEL 5 (1440 mA)
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

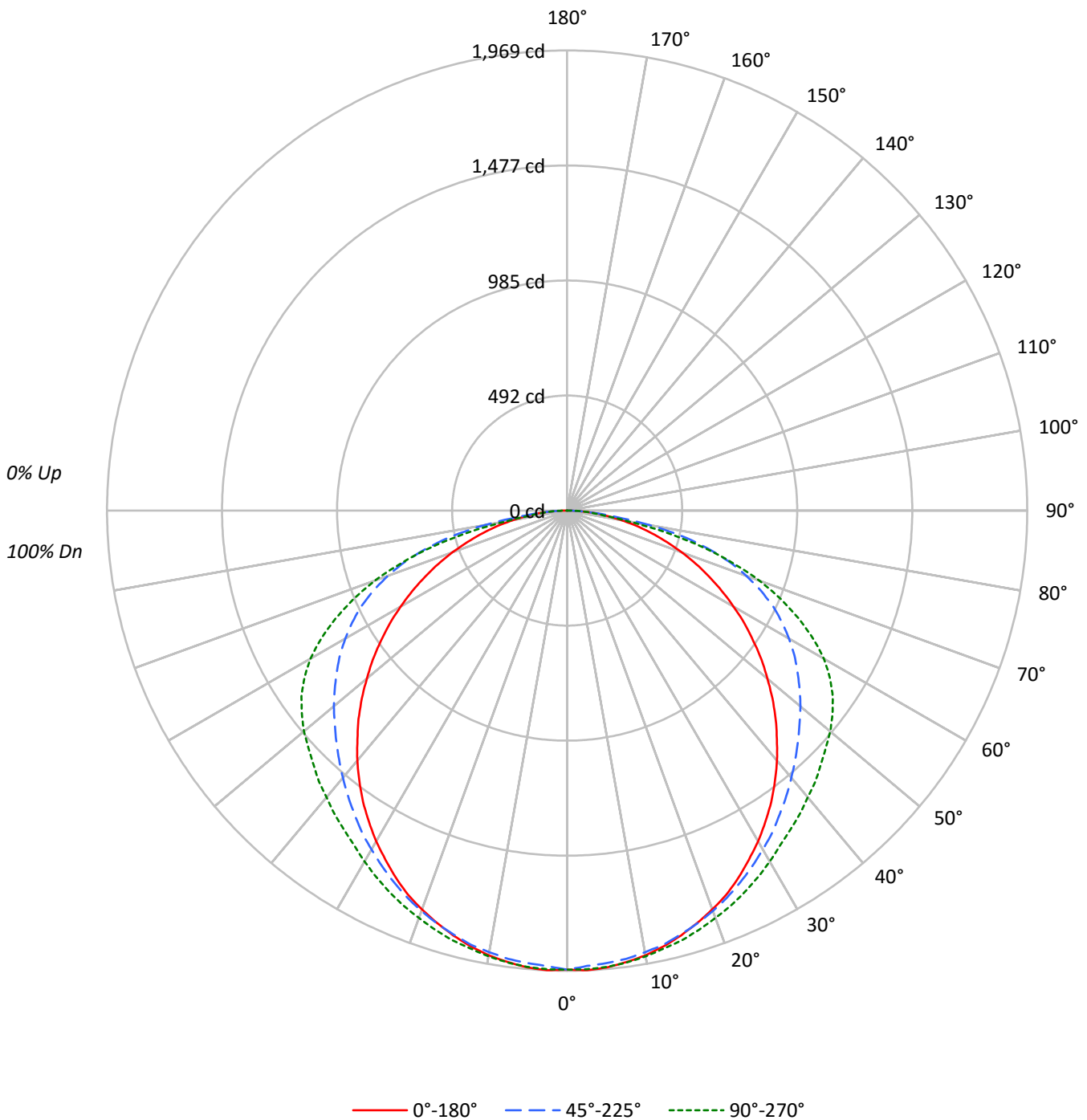
Lumens per Lamp: N/A
Luminaire Lumens: 6335.3 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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	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°	3008	3008	3008
5°	3016	2988	3013
10°	3005	2984	3012
15°	2984	2977	3017
20°	2960	2971	3023
25°	2930	2965	3042
30°	2889	2962	3067
35°	2846	2965	3114
40°	2793	2984	3203
45°	2734	3026	3327
50°	2666	3106	3502
55°	2598	3213	3706
60°	2520	3357	3888
65°	2428	3526	3964
70°	2337	3653	3918
75°	2211	3668	3533
80°	2070	3175	2331
85°	1882	1963	1763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.8	2.9
10°-20°	532.9	8.4
20°-30°	812.5	12.8
30°-40°	996.7	15.7
40°-50°	1080.9	17.1
50°-60°	1066.9	16.8
60°-70°	920.9	14.5
70°-80°	590.3	9.3
80°-90°	148.4	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°	1531.2	24.2
0°-40°	2527.9	39.9
0°-60°	4675.7	73.8
0°-90°	6335.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6335.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1964	1964	1964	1964	1964	
5°	1962	1957	1944	1957	1960	186
15°	1882	1882	1878	1898	1903	531
25°	1734	1739	1754	1789	1800	799
35°	1522	1538	1586	1645	1666	952
45°	1262	1303	1397	1495	1536	973
55°	973	1057	1203	1333	1388	870
65°	670	814	973	1069	1094	665
75°	374	558	620	611	597	397
85°	107	166	112	102	100	121
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1964.2	1964.2	1964.2	1964.2	1964.2
2.5°	1968.7	1964.2	1950.5	1964.2	1964.2
5°	1961.9	1957.3	1943.7	1957.3	1959.6
7.5°	1948.2	1945.9	1934.5	1948.2	1950.5
10°	1932.3	1930.0	1918.6	1934.5	1936.8
12.5°	1909.5	1907.2	1902.6	1918.6	1918.6
15°	1882.1	1882.1	1877.6	1898.1	1902.6
17.5°	1850.2	1852.5	1852.5	1875.3	1879.9
20°	1816.1	1818.3	1822.9	1848.0	1854.8
22.5°	1779.6	1779.6	1791.0	1820.6	1829.7
25°	1734.0	1738.6	1754.5	1788.7	1800.1
27.5°	1683.9	1693.0	1715.8	1754.5	1768.2
30°	1633.8	1645.2	1674.8	1718.1	1734.0
32.5°	1579.1	1592.8	1633.8	1681.6	1697.6
35°	1522.1	1538.1	1585.9	1645.2	1665.7
37.5°	1460.6	1481.1	1540.3	1608.7	1636.0
40°	1396.8	1424.1	1492.5	1570.0	1601.9
42.5°	1328.4	1364.9	1444.6	1533.5	1572.2
45°	1262.4	1303.4	1396.8	1494.8	1535.8
47.5°	1191.7	1244.1	1348.9	1456.0	1501.6
50°	1118.8	1178.0	1303.4	1419.6	1469.7
52.5°	1048.2	1118.8	1253.2	1378.6	1431.0
55°	973.0	1057.3	1203.1	1333.0	1387.7
57.5°	900.1	998.0	1153.0	1282.9	1333.0
60°	822.6	934.2	1096.0	1223.6	1269.2
62.5°	747.4	877.3	1036.8	1150.7	1187.2
65°	669.9	813.5	973.0	1068.7	1093.7
67.5°	597.0	754.2	897.8	973.0	988.9
70°	521.8	692.7	815.7	870.4	875.0
72.5°	446.6	624.3	726.9	740.6	740.6
75°	373.7	558.3	619.8	610.7	597.0
77.5°	305.3	476.2	501.3	462.6	432.9
80°	234.7	391.9	360.0	291.7	264.3
82.5°	168.6	291.7	211.9	166.3	157.2
85°	107.1	166.3	111.7	102.5	100.3
87.5°	50.1	61.5	50.1	54.7	54.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)