

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: P189678

Luminaire Tested: **BRG-WG-5L40-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189678
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-5L40-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) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

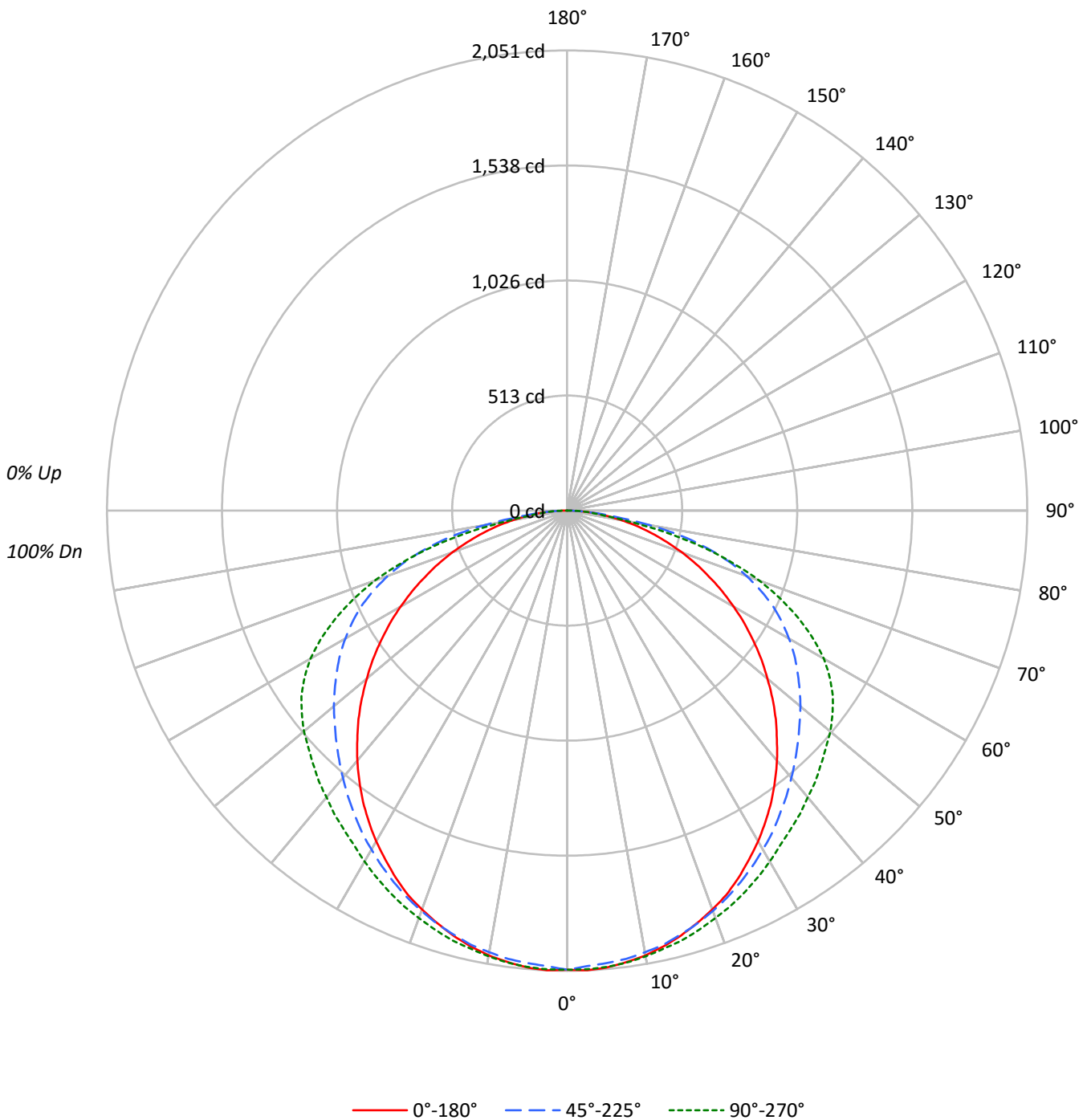
Lumens per Lamp: N/A
Luminaire Lumens: 6600.0 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3134	3134	3134
5°	3142	3113	3139
10°	3131	3109	3138
15°	3109	3102	3143
20°	3084	3095	3150
25°	3053	3089	3169
30°	3010	3086	3195
35°	2965	3089	3245
40°	2910	3109	3337
45°	2849	3152	3466
50°	2777	3235	3648
55°	2707	3347	3860
60°	2625	3498	4050
65°	2529	3673	4129
70°	2434	3806	4082
75°	2304	3821	3680
80°	2157	3308	2429
85°	1961	2044	1835



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.6	2.9
10°-20°	555.2	8.4
20°-30°	846.5	12.8
30°-40°	1038.3	15.7
40°-50°	1126.0	17.1
50°-60°	1111.5	16.8
60°-70°	959.4	14.5
70°-80°	615.0	9.3
80°-90°	154.6	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°	1595.2	24.2
0°-40°	2633.5	39.9
0°-60°	4871.1	73.8
0°-90°	6600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6600.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2046	2046	2046	2046	2046	
5°	2044	2039	2025	2039	2042	194
15°	1961	1961	1956	1977	1982	553
25°	1806	1811	1828	1864	1875	832
35°	1586	1602	1652	1714	1735	991
45°	1315	1358	1455	1557	1600	1014
55°	1014	1102	1253	1389	1446	907
65°	698	848	1014	1113	1139	693
75°	389	582	646	636	622	413
85°	112	173	116	107	104	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2046.2	2046.2	2046.2	2046.2	2046.2
2.5°	2051.0	2046.2	2032.0	2046.2	2046.2
5°	2043.9	2039.1	2024.9	2039.1	2041.5
7.5°	2029.6	2027.2	2015.4	2029.6	2032.0
10°	2013.0	2010.6	1998.8	2015.4	2017.7
12.5°	1989.3	1986.9	1982.1	1998.8	1998.8
15°	1960.8	1960.8	1956.0	1977.4	1982.1
17.5°	1927.5	1929.9	1929.9	1953.7	1958.4
20°	1891.9	1894.3	1899.1	1925.2	1932.3
22.5°	1854.0	1854.0	1865.8	1896.7	1906.2
25°	1806.5	1811.2	1827.8	1863.5	1875.3
27.5°	1754.3	1763.8	1787.5	1827.8	1842.1
30°	1702.0	1713.9	1744.8	1789.9	1806.5
32.5°	1645.1	1659.3	1702.0	1751.9	1768.5
35°	1585.7	1602.3	1652.2	1713.9	1735.3
37.5°	1521.6	1543.0	1604.7	1675.9	1704.4
40°	1455.2	1483.6	1554.9	1635.6	1668.8
42.5°	1383.9	1421.9	1505.0	1597.6	1637.9
45°	1315.1	1357.8	1455.2	1557.2	1600.0
47.5°	1241.5	1296.1	1405.3	1516.9	1564.3
50°	1165.5	1227.3	1357.8	1478.9	1531.1
52.5°	1092.0	1165.5	1305.6	1436.2	1490.8
55°	1013.6	1101.5	1253.4	1388.7	1445.7
57.5°	937.7	1039.7	1201.2	1336.5	1388.7
60°	857.0	973.3	1141.8	1274.7	1322.2
62.5°	778.6	913.9	1080.1	1198.8	1236.8
65°	697.9	847.5	1013.6	1113.3	1139.4
67.5°	621.9	785.7	935.3	1013.6	1030.2
70°	543.6	721.6	849.8	906.8	911.5
72.5°	465.3	650.4	757.2	771.5	771.5
75°	389.3	581.6	645.7	636.2	621.9
77.5°	318.1	496.1	522.2	481.9	451.0
80°	244.5	408.3	375.1	303.8	275.4
82.5°	175.7	303.8	220.8	173.3	163.8
85°	111.6	173.3	116.3	106.8	104.4
87.5°	52.2	64.1	52.2	57.0	57.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)