

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: P189673

Luminaire Tested: **BRG-WG-5L35-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189673
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-5L35-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) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

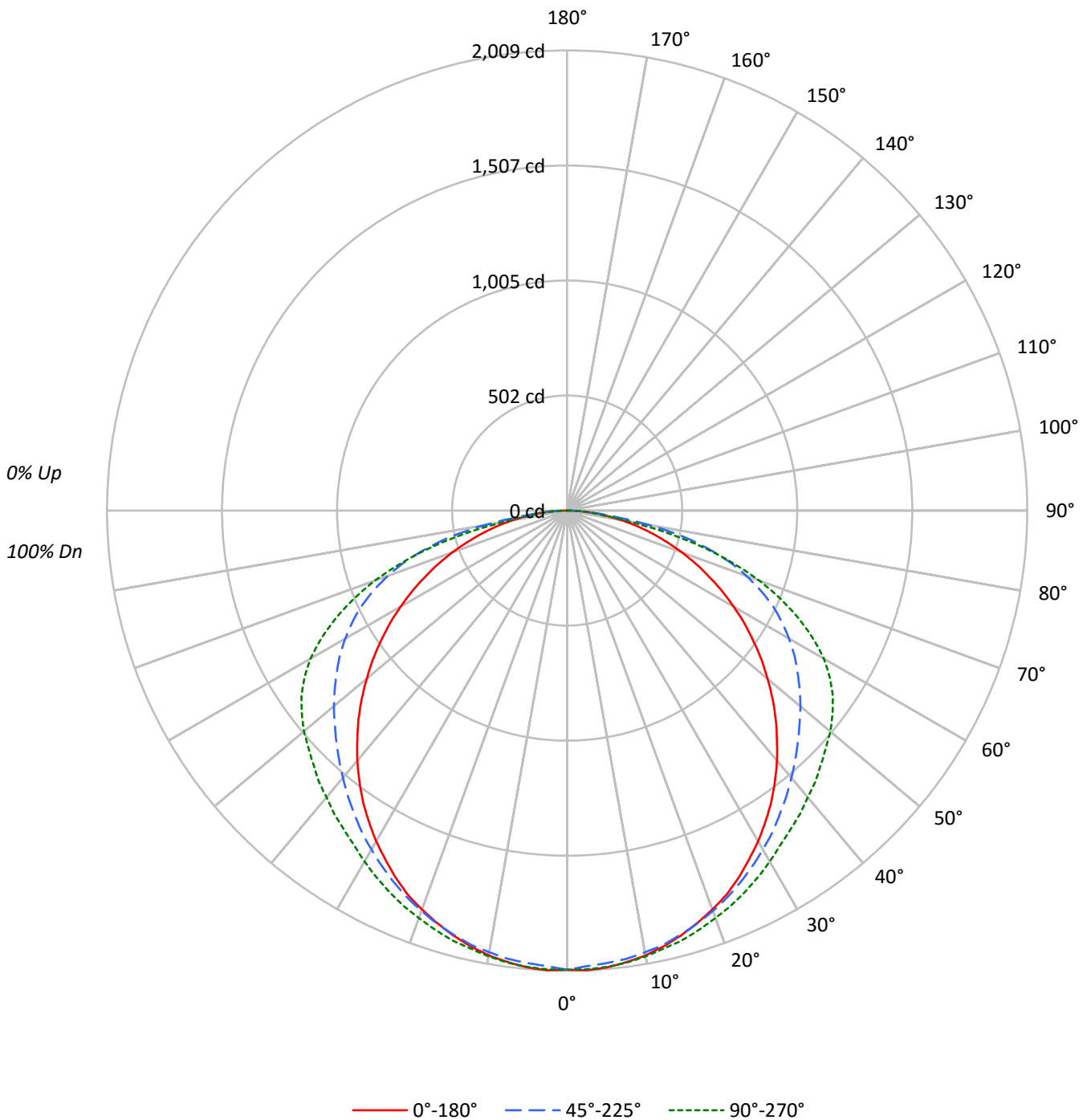
Lumens per Lamp: N/A
Luminaire Lumens: 6464.7 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3070	3070	3070
5°	3078	3049	3074
10°	3066	3045	3074
15°	3045	3038	3079
20°	3021	3032	3085
25°	2990	3026	3104
30°	2948	3022	3129
35°	2904	3026	3178
40°	2850	3045	3268
45°	2790	3087	3395
50°	2720	3169	3573
55°	2651	3278	3781
60°	2571	3426	3967
65°	2477	3598	4045
70°	2385	3728	3999
75°	2256	3742	3605
80°	2112	3241	2379
85°	1921	2002	1798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	2.9
10°-20°	543.8	8.4
20°-30°	829.1	12.8
30°-40°	1017.0	15.7
40°-50°	1102.9	17.1
50°-60°	1088.7	16.8
60°-70°	939.7	14.5
70°-80°	602.4	9.3
80°-90°	151.4	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°	1562.5	24.2
0°-40°	2579.5	39.9
0°-60°	4771.2	73.8
0°-90°	6464.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6464.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2004	2004	2004	2004	2004	
5°	2002	1997	1983	1997	2000	190
15°	1921	1921	1916	1937	1942	542
25°	1769	1774	1790	1825	1837	815
35°	1553	1570	1618	1679	1700	971
45°	1288	1330	1425	1525	1567	993
55°	993	1079	1228	1360	1416	888
65°	684	830	993	1090	1116	678
75°	381	570	632	623	609	405
85°	109	170	114	105	102	123
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2004.3	2004.3	2004.3	2004.3	2004.3
2.5°	2008.9	2004.3	1990.3	2004.3	2004.3
5°	2002.0	1997.3	1983.4	1997.3	1999.6
7.5°	1988.0	1985.7	1974.1	1988.0	1990.3
10°	1971.7	1969.4	1957.8	1974.1	1976.4
12.5°	1948.5	1946.2	1941.5	1957.8	1957.8
15°	1920.6	1920.6	1915.9	1936.9	1941.5
17.5°	1888.0	1890.4	1890.4	1913.6	1918.3
20°	1853.2	1855.5	1860.1	1885.7	1892.7
22.5°	1816.0	1816.0	1827.6	1857.8	1867.1
25°	1769.4	1774.1	1790.4	1825.3	1836.9
27.5°	1718.3	1727.6	1750.8	1790.4	1804.3
30°	1667.1	1678.8	1709.0	1753.2	1769.4
32.5°	1611.3	1625.3	1667.1	1716.0	1732.2
35°	1553.2	1569.5	1618.3	1678.8	1699.7
37.5°	1490.4	1511.4	1571.8	1641.6	1669.5
40°	1425.3	1453.2	1523.0	1602.0	1634.6
42.5°	1355.6	1392.8	1474.2	1564.8	1604.4
45°	1288.1	1330.0	1425.3	1525.3	1567.2
47.5°	1216.1	1269.5	1376.5	1485.8	1532.3
50°	1141.7	1202.1	1330.0	1448.6	1499.7
52.5°	1069.6	1141.7	1278.8	1406.7	1460.2
55°	992.8	1078.9	1227.7	1360.2	1416.0
57.5°	918.4	1018.4	1176.5	1309.1	1360.2
60°	839.4	953.3	1118.4	1248.6	1295.1
62.5°	762.7	895.2	1057.9	1174.2	1211.4
65°	683.6	830.1	992.8	1090.5	1116.1
67.5°	609.2	769.6	916.1	992.8	1009.1
70°	532.5	706.8	832.4	888.2	892.9
72.5°	455.7	637.1	741.7	755.7	755.7
75°	381.3	569.7	632.4	623.1	609.2
77.5°	311.6	486.0	511.5	472.0	441.8
80°	239.5	399.9	367.4	297.6	269.7
82.5°	172.1	297.6	216.2	169.7	160.4
85°	109.3	169.7	113.9	104.6	102.3
87.5°	51.2	62.8	51.2	55.8	55.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)