

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: P189688

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34875)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WD-5L35-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY
LIGHT LEVEL 5 (1440 mA)
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

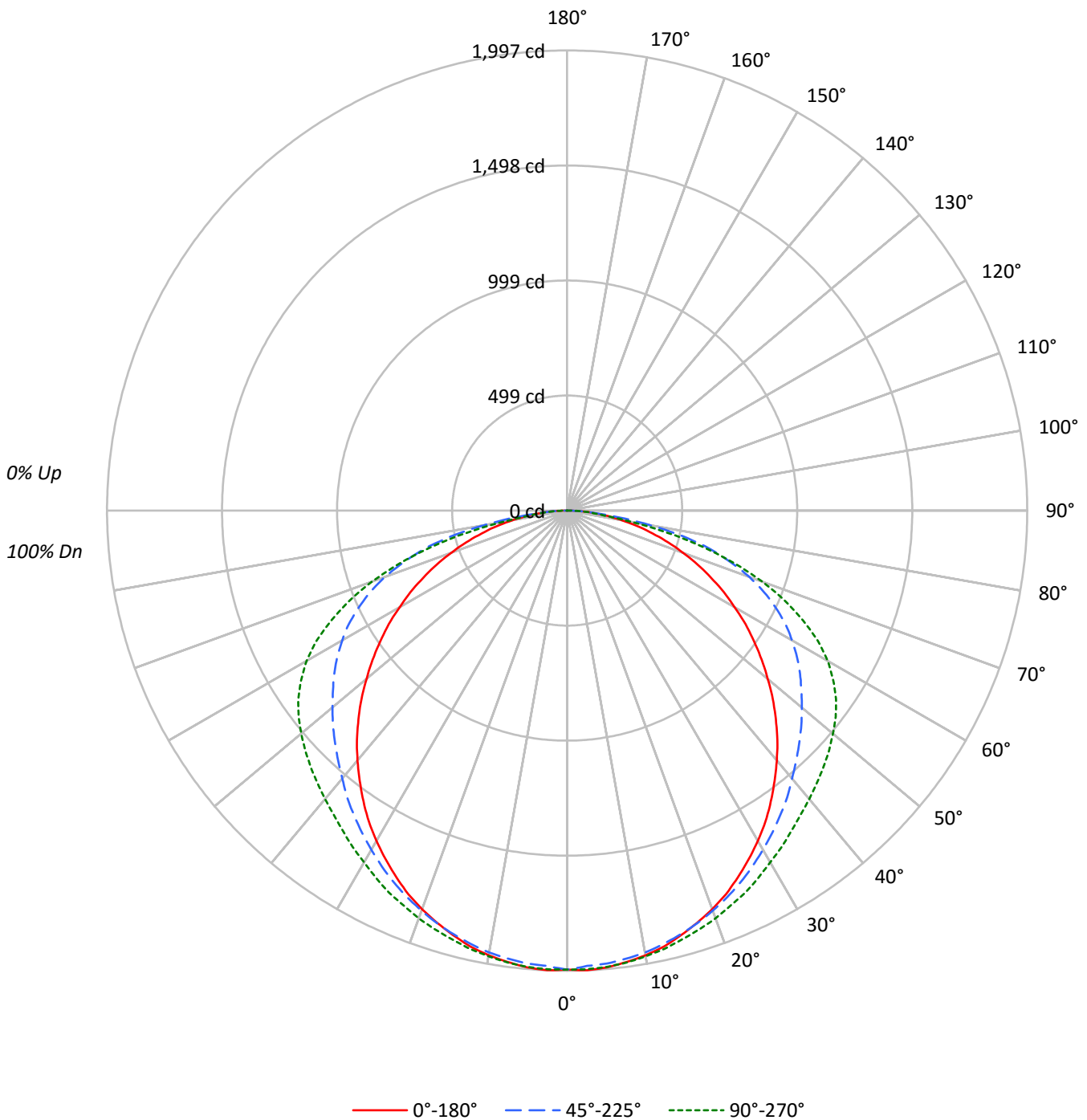
Lumens per Lamp: N/A
Luminaire Lumens: 6469.4 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.43
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
Input Voltage (V): NR
Input Current (A_{in}): 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	92	89	92	89	87	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	79	75	70	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	59	69	63	58	67	62	57	55
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	46
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40
6	68	54	44	38	66	53	44	38	51	43	37	49	42	37	48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3051	3051	3051
5°	3059	3034	3056
10°	3048	3029	3055
15°	3026	3019	3056
20°	3001	3012	3069
25°	2966	3009	3092
30°	2927	3005	3116
35°	2882	3016	3173
40°	2830	3035	3267
45°	2774	3086	3409
50°	2709	3168	3589
55°	2644	3296	3805
60°	2571	3454	4002
65°	2494	3622	4094
70°	2394	3768	4039
75°	2269	3797	3618
80°	2112	3260	2460
85°	1961	2042	1798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.5	2.9
10°-20°	540.4	8.4
20°-30°	824.2	12.7
30°-40°	1012.9	15.7
40°-50°	1102.5	17.0
50°-60°	1092.6	16.9
60°-70°	947.9	14.7
70°-80°	607.4	9.4
80°-90°	153.1	2.4
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°	1553.0	24.0
0°-40°	2565.9	39.7
0°-60°	4761.0	73.6
0°-90°	6469.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6469.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1992	1992	1992	1992	1992	
5°	1990	1985	1974	1985	1988	189
15°	1908	1908	1904	1925	1927	538
25°	1755	1762	1781	1815	1829	809
35°	1541	1560	1613	1674	1697	964
45°	1281	1327	1425	1530	1574	988
55°	990	1081	1234	1372	1425	886
65°	688	834	1000	1104	1130	682
75°	384	570	642	630	611	407
85°	112	172	116	102	102	125
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1992.1	1992.1	1992.1	1992.1	1992.1
2.5°	1996.8	1992.1	1978.2	1992.1	1992.1
5°	1989.8	1985.1	1973.5	1985.1	1987.5
7.5°	1975.8	1973.5	1961.9	1975.8	1978.2
10°	1959.6	1954.9	1947.9	1961.9	1964.2
12.5°	1938.6	1934.0	1927.0	1945.6	1947.9
15°	1908.4	1908.4	1903.8	1924.7	1927.0
17.5°	1875.9	1878.2	1878.2	1901.5	1906.1
20°	1841.0	1843.3	1848.0	1875.9	1882.9
22.5°	1801.5	1803.8	1815.4	1848.0	1855.0
25°	1755.0	1762.0	1780.6	1815.4	1829.4
27.5°	1706.2	1715.5	1741.1	1780.6	1796.9
30°	1655.1	1666.7	1699.2	1748.0	1762.0
32.5°	1601.6	1615.5	1657.4	1710.8	1731.8
35°	1541.2	1559.8	1613.2	1673.7	1696.9
37.5°	1478.4	1504.0	1569.0	1638.8	1664.4
40°	1415.6	1445.8	1517.9	1601.6	1634.1
42.5°	1350.5	1387.7	1471.4	1564.4	1603.9
45°	1280.8	1327.3	1424.9	1529.5	1573.7
47.5°	1211.1	1264.5	1378.4	1492.3	1541.2
50°	1136.7	1204.1	1329.6	1452.8	1506.3
52.5°	1064.6	1139.0	1280.8	1413.3	1469.1
55°	990.2	1080.9	1234.3	1371.5	1424.9
57.5°	918.2	1018.1	1183.2	1318.0	1369.1
60°	839.2	957.7	1127.4	1257.6	1306.4
62.5°	767.1	897.3	1069.3	1187.8	1227.3
65°	688.1	834.5	999.5	1104.1	1129.7
67.5°	613.7	774.1	925.2	1001.9	1022.8
70°	534.6	713.6	841.5	897.3	901.9
72.5°	460.3	643.9	743.8	764.8	762.4
75°	383.5	569.5	641.6	629.9	611.3
77.5°	313.8	490.5	516.0	471.9	451.0
80°	239.4	402.1	369.6	299.9	278.9
82.5°	174.3	299.9	223.2	172.0	160.4
85°	111.6	172.0	116.2	102.3	102.3
87.5°	53.5	65.1	53.5	53.5	53.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)