

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: P189685

Luminaire Tested: **BRG-WD-2L35-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189685
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-2L35-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY
LIGHT LEVEL 2 (820 mA)
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

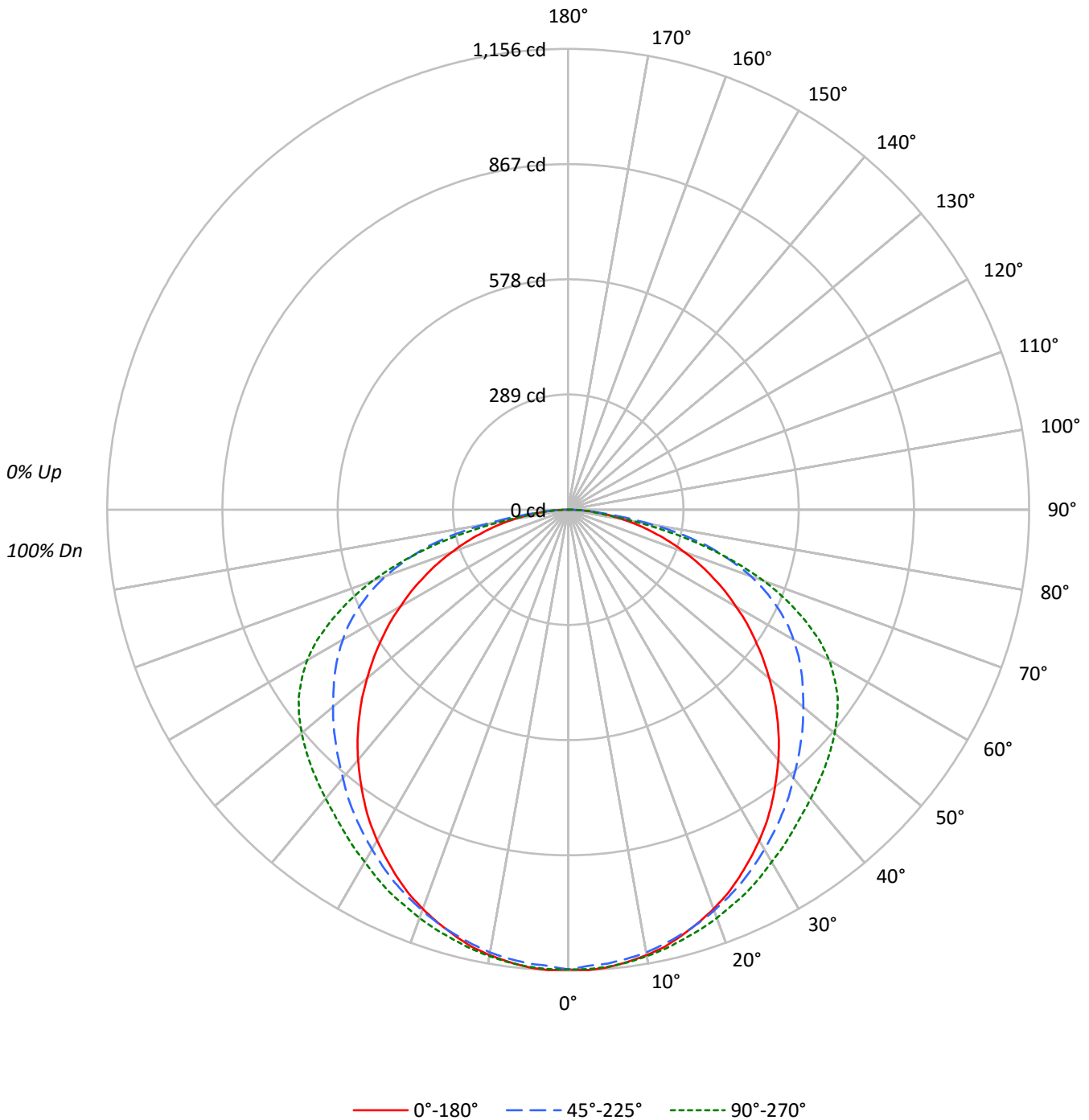
Lumens per Lamp: N/A
Luminaire Lumens: 3745.6 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.43
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 38.5
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	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°	1767	1767	1767
5°	1771	1757	1769
10°	1764	1754	1769
15°	1752	1748	1769
20°	1737	1744	1777
25°	1717	1742	1790
30°	1695	1740	1804
35°	1668	1746	1837
40°	1639	1757	1892
45°	1606	1787	1973
50°	1568	1834	2078
55°	1531	1908	2203
60°	1488	1999	2317
65°	1444	2097	2371
70°	1386	2182	2339
75°	1314	2198	2095
80°	1222	1888	1424
85°	1135	1183	1040



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	2.9
10°-20°	312.9	8.4
20°-30°	477.2	12.7
30°-40°	586.5	15.7
40°-50°	638.3	17.0
50°-60°	632.6	16.9
60°-70°	548.8	14.7
70°-80°	351.7	9.4
80°-90°	88.6	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°	899.1	24.0
0°-40°	1485.6	39.7
0°-60°	2756.5	73.6
0°-90°	3745.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3745.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1153	1153	1153	1153	1153	
5°	1152	1149	1143	1149	1151	109
15°	1105	1105	1102	1114	1116	312
25°	1016	1020	1031	1051	1059	468
35°	892	903	934	969	982	558
45°	742	768	825	886	911	572
55°	573	626	715	794	825	513
65°	398	483	579	639	654	395
75°	222	330	372	365	354	236
85°	65	100	67	59	59	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1153.4	1153.4	1153.4	1153.4	1153.4
2.5°	1156.1	1153.4	1145.3	1153.4	1153.4
5°	1152.0	1149.3	1142.6	1149.3	1150.7
7.5°	1144.0	1142.6	1135.9	1144.0	1145.3
10°	1134.5	1131.9	1127.8	1135.9	1137.2
12.5°	1122.4	1119.7	1115.7	1126.5	1127.8
15°	1104.9	1104.9	1102.2	1114.4	1115.7
17.5°	1086.1	1087.4	1087.4	1100.9	1103.6
20°	1065.9	1067.3	1069.9	1086.1	1090.1
22.5°	1043.0	1044.4	1051.1	1069.9	1074.0
25°	1016.1	1020.1	1030.9	1051.1	1059.2
27.5°	987.8	993.2	1008.0	1030.9	1040.3
30°	958.2	965.0	983.8	1012.1	1020.1
32.5°	927.3	935.4	959.6	990.5	1002.7
35°	892.3	903.1	934.0	969.0	982.5
37.5°	856.0	870.8	908.4	948.8	963.6
40°	819.6	837.1	878.8	927.3	946.1
42.5°	781.9	803.5	851.9	905.8	928.6
45°	741.6	768.5	825.0	885.6	911.1
47.5°	701.2	732.1	798.1	864.0	892.3
50°	658.1	697.1	769.8	841.2	872.1
52.5°	616.4	659.5	741.6	818.3	850.6
55°	573.3	625.8	714.6	794.0	825.0
57.5°	531.6	589.5	685.0	763.1	792.7
60°	485.8	554.5	652.7	728.1	756.4
62.5°	444.1	519.5	619.1	687.7	710.6
65°	398.4	483.2	578.7	639.3	654.1
67.5°	355.3	448.2	535.6	580.1	592.2
70°	309.5	413.2	487.2	519.5	522.2
72.5°	266.5	372.8	430.7	442.8	441.4
75°	222.1	329.7	371.5	364.7	354.0
77.5°	181.7	284.0	298.8	273.2	261.1
80°	138.6	232.8	214.0	173.6	161.5
82.5°	100.9	173.6	129.2	99.6	92.9
85°	64.6	99.6	67.3	59.2	59.2
87.5°	31.0	37.7	31.0	31.0	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)