

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P709287

Luminaire Tested: DL2W-BB-M-OU-125D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709287
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-BB-M-0U-125D-935-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: -

Summary

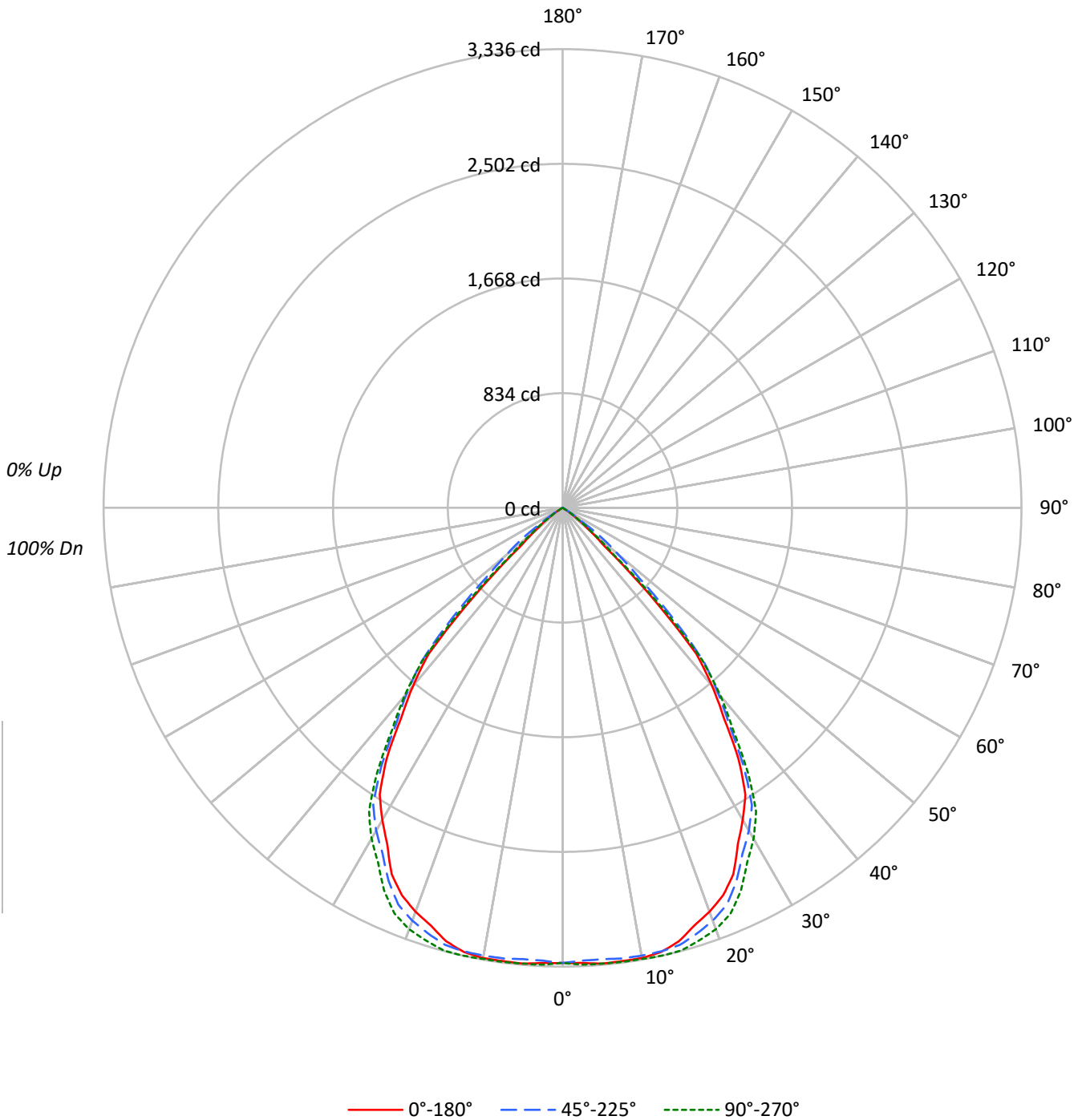
Lumens per Lamp: N/A
Luminaire Lumens: 4996.9 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.17
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 49.8
Input Voltage (V): 120
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: 24 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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	106	101	96	93	104	99	95	91	96	92	89	93	90	88	90	88	86	84
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69
5	88	79	72	67	86	78	71	67	76	70	66	74	69	66	72	68	65	63
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	55	53
8	73	62	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	53443	53443	53443	53443	53443
5°	53922	53401	53922	53401	53922
10°	54497	54207	54611	54207	54497
15°	54559	55012	55712	55012	54559
20°	53677	54879	56031	54879	53677
25°	52358	53316	54674	53316	52358
30°	48828	50504	51773	50504	48828
35°	43954	45261	46300	45261	43954
40°	35641	37109	37707	37109	35641
45°	20733	25944	23016	25944	20733
50°	6606	13391	7510	13391	6606
55°	2646	4663	2562	4663	2646
60°	65	1280	194	1280	65
65°	0	69	38	69	0
70°	0	42	0	42	0
75°	0	0	0	0	0
80°	0	0	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 26151 cd/sqm

TEST NUMBER: P709287

CATALOG NUMBER: DL2W-BB-M-0U-125D-935-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.8	6.3
10°-20°	930.2	18.6
20°-30°	1374.7	27.5
30°-40°	1412.7	28.3
40°-50°	816.0	16.3
50°-60°	141.1	2.8
60°-70°	5.3	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	2621.6	52.5
0°-40°	4034.4	80.7
0°-60°	4991.5	99.9
0°-90°	4996.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4996.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3310	3310	3310	3310	3310	
5°	3327	3295	3327	3295	3327	317
15°	3264	3291	3333	3291	3264	917
25°	2939	2993	3069	2993	2939	1337
35°	2230	2296	2349	2296	2230	1368
45°	908	1136	1008	1136	908	706
55°	94	166	91	166	94	96
65°	0	2	1	2	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P709287

CATALOG NUMBER: DL2W-BB-M-OU-125D-935-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	3310.0	3310.0	3310.0	3310.0	3310.0	3310.0	3310.0	3310.0	3310.0	3310.0	3310.0
2.5°	3312.4	3315.6	3318.8	3309.5	3296.0	3295.1	3306.8	3316.7	3320.9	3325.2	3320.9
5°	3327.0	3330.1	3333.2	3318.0	3296.7	3292.9	3306.7	3318.1	3322.6	3327.0	3322.6
7.5°	3324.0	3329.0	3334.0	3322.6	3305.8	3303.3	3315.1	3324.7	3327.4	3330.2	3327.4
10°	3324.0	3327.6	3331.1	3321.0	3306.3	3306.3	3321.0	3331.9	3331.4	3331.0	3331.4
12.5°	3308.8	3314.8	3320.9	3313.5	3301.7	3306.9	3329.0	3344.5	3340.2	3335.8	3340.2
15°	3264.0	3274.7	3285.3	3286.0	3283.3	3298.9	3332.7	3355.2	3344.1	3333.0	3344.1
17.5°	3184.8	3198.1	3211.5	3222.5	3232.7	3259.5	3302.9	3331.4	3315.4	3299.4	3315.4
20°	3124.0	3137.3	3150.7	3164.3	3178.1	3209.9	3259.7	3293.0	3277.0	3261.0	3277.0
22.5°	3050.4	3062.7	3074.9	3089.4	3104.6	3138.9	3192.2	3227.8	3210.4	3193.0	3210.4
25°	2939.0	2943.9	2948.8	2961.3	2976.4	3009.1	3059.3	3093.9	3081.4	3069.0	3081.4
27.5°	2758.2	2769.7	2781.1	2798.9	2818.7	2848.0	2886.7	2914.7	2910.2	2905.8	2910.2
30°	2619.0	2635.4	2651.9	2673.0	2695.7	2722.1	2752.3	2775.2	2776.1	2777.0	2776.1
32.5°	2473.4	2490.2	2507.0	2527.1	2548.4	2574.3	2604.9	2626.7	2622.2	2617.8	2622.2
35°	2230.0	2242.9	2255.8	2270.7	2286.2	2306.4	2331.3	2349.9	2349.4	2349.0	2349.4
37.5°	1927.8	1935.1	1942.4	1960.1	1981.2	2000.4	2017.5	2031.0	2033.2	2035.4	2033.2
40°	1691.0	1699.0	1707.0	1727.0	1751.0	1770.3	1785.0	1795.2	1792.1	1789.0	1792.1
42.5°	1439.8	1449.6	1459.4	1483.0	1511.3	1530.8	1541.5	1544.5	1523.9	1503.4	1523.9
45°	908.0	986.7	1065.3	1104.0	1129.3	1143.1	1145.3	1131.6	1069.8	1008.0	1069.8
47.5°	414.2	506.6	598.9	677.4	751.3	766.3	722.6	670.5	593.1	515.8	593.1
50°	263.0	289.2	315.4	408.3	523.4	542.8	466.3	396.8	347.9	299.0	347.9
52.5°	175.0	190.2	205.4	277.1	367.7	375.0	298.9	236.0	212.7	189.4	212.7
55°	94.0	98.4	102.9	130.3	165.4	165.9	131.7	104.3	97.7	91.0	97.7
57.5°	35.6	42.4	49.1	60.9	74.4	74.2	60.3	48.0	40.6	33.2	40.6
60°	2.0	7.3	12.7	24.7	38.9	40.4	29.3	19.3	12.7	6.0	12.7
62.5°	1.2	2.3	3.3	11.3	21.6	22.1	12.8	5.4	3.7	2.0	3.7
65°	0.0	0.4	0.9	1.3	1.8	1.8	1.3	1.0	1.0	1.0	1.0
67.5°	0.0	0.0	0.0	0.3	0.8	1.0	1.0	0.9	0.4	0.0	0.4
70°	0.0	0.0	0.0	0.3	0.8	1.0	1.0	0.9	0.4	0.0	0.4
72.5°	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.1	0.0	0.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P709287

CATALOG NUMBER: DL2W-BB-M-OU-125D-935-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	3310.0	3310.0	3310.0	3310.0	3310.0	3310.0	3310.0	3310.0
2.5°	3316.7	3306.8	3295.1	3296.0	3309.5	3318.8	3315.6	3312.4
5°	3318.1	3306.7	3292.9	3296.7	3318.0	3333.2	3330.1	3327.0
7.5°	3324.7	3315.1	3303.3	3305.8	3322.6	3334.0	3329.0	3324.0
10°	3331.9	3321.0	3306.3	3306.3	3321.0	3331.1	3327.6	3324.0
12.5°	3344.5	3329.0	3306.9	3301.7	3313.5	3320.9	3314.8	3308.8
15°	3355.2	3332.7	3298.9	3283.3	3286.0	3285.3	3274.7	3264.0
17.5°	3331.4	3302.9	3259.5	3232.7	3222.5	3211.5	3198.1	3184.8
20°	3293.0	3259.7	3209.9	3178.1	3164.3	3150.7	3137.3	3124.0
22.5°	3227.8	3192.2	3138.9	3104.6	3089.4	3074.9	3062.7	3050.4
25°	3093.9	3059.3	3009.1	2976.4	2961.3	2948.8	2943.9	2939.0
27.5°	2914.7	2886.7	2848.0	2818.7	2798.9	2781.1	2769.7	2758.2
30°	2775.2	2752.3	2722.1	2695.7	2673.0	2651.9	2635.4	2619.0
32.5°	2626.7	2604.9	2574.3	2548.4	2527.1	2507.0	2490.2	2473.4
35°	2349.9	2331.3	2306.4	2286.2	2270.7	2255.8	2242.9	2230.0
37.5°	2031.0	2017.5	2000.4	1981.2	1960.1	1942.4	1935.1	1927.8
40°	1795.2	1785.0	1770.3	1751.0	1727.0	1707.0	1699.0	1691.0
42.5°	1544.5	1541.5	1530.8	1511.3	1483.0	1459.4	1449.6	1439.8
45°	1131.6	1145.3	1143.1	1129.3	1104.0	1065.3	986.7	908.0
47.5°	670.5	722.6	766.3	751.3	677.4	598.9	506.6	414.2
50°	396.8	466.3	542.8	523.4	408.3	315.4	289.2	263.0
52.5°	236.0	298.9	375.0	367.7	277.1	205.4	190.2	175.0
55°	104.3	131.7	165.9	165.4	130.3	102.9	98.4	94.0
57.5°	48.0	60.3	74.2	74.4	60.9	49.1	42.4	35.6
60°	19.3	29.3	40.4	38.9	24.7	12.7	7.3	2.0
62.5°	5.4	12.8	22.1	21.6	11.3	3.3	2.3	1.2
65°	1.0	1.3	1.8	1.8	1.3	0.9	0.4	0.0
67.5°	0.9	1.0	1.0	0.8	0.3	0.0	0.0	0.0
70°	0.9	1.0	1.0	0.8	0.3	0.0	0.0	0.0
72.5°	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)