

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: P709371

Luminaire Tested: DL2W-WB-M-0U-125D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709371
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-WB-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: 5446.3 lumens
Efficiency: N/A
Efficacy: 109.6 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

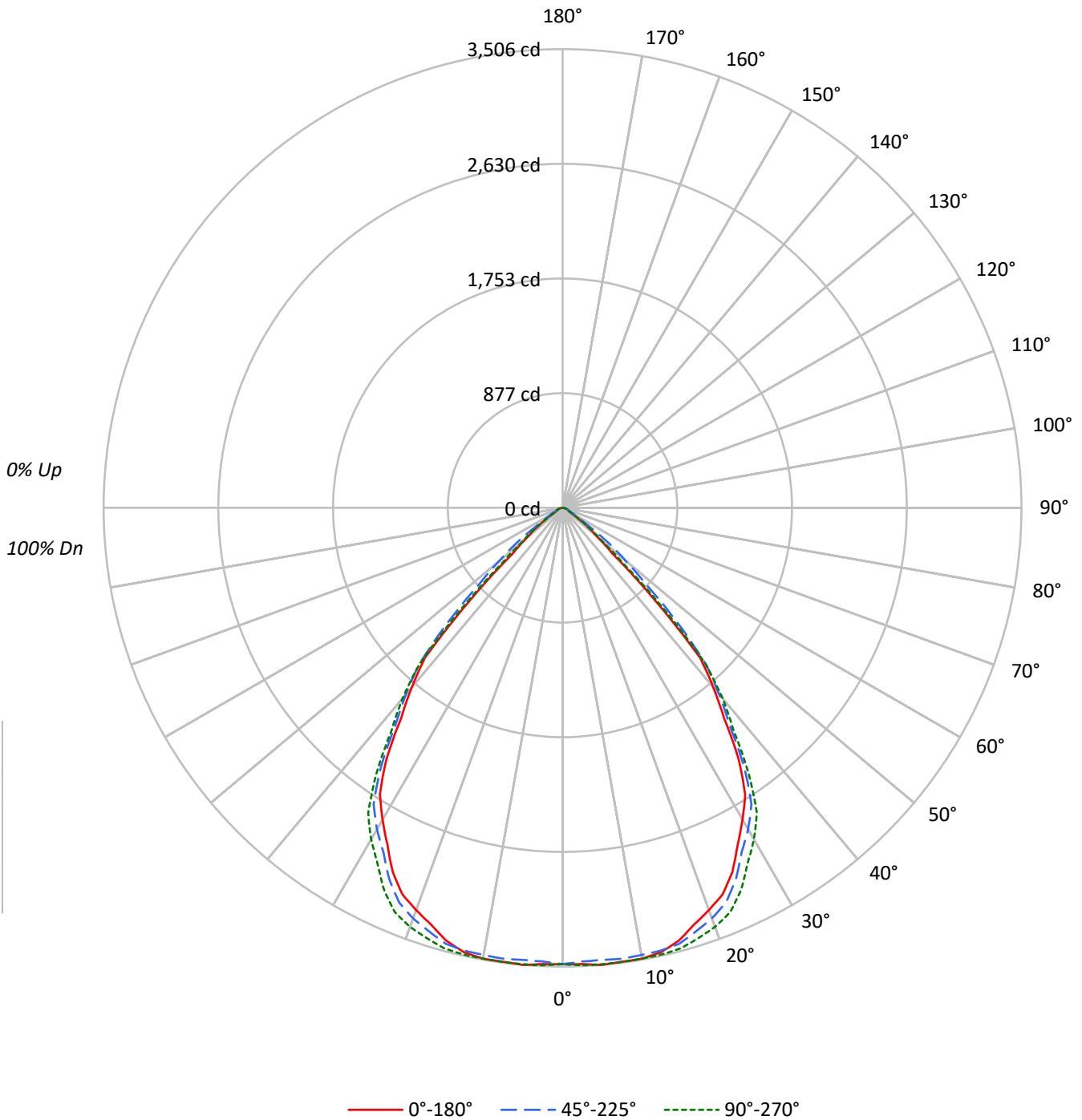
Input Watts (W): 49.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			91	
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			83	
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75			75	
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68			68	
5	87	77	70	65	85	76	70	65	74	69	65	73	68	64	71	67	63	62			62	
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56			56	
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51			51	
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47			47	
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	49	45	43			43	
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40			40	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	56301	56301	56301	56301	56301
5°	56824	56206	56743	56206	56824
10°	57366	56890	57349	56890	57366
15°	57267	57638	58270	57638	57267
20°	56202	57363	58556	57363	56202
25°	54692	55800	57453	55800	54692
30°	51289	52870	54514	52870	51289
35°	46241	47735	48882	47735	46241
40°	37812	39243	40130	39243	37812
45°	22765	28342	25094	28342	22765
50°	8867	15743	9922	15743	8867
55°	4757	7133	4814	7133	4757
60°	2067	3526	2260	3526	2067
65°	1948	2157	2025	2157	1948
70°	1841	2030	1983	2030	1841
75°	1747	1940	1934	1940	1747
80°	1674	1869	1860	1869	1674
85°	1667	1686	1667	1686	1667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 28542 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.2	6.1
10°-20°	973.9	17.9
20°-30°	1439.8	26.4
30°-40°	1487.7	27.3
40°-50°	895.1	16.4
50°-60°	214.9	3.9
60°-70°	58.7	1.1
70°-80°	32.7	0.6
80°-90°	10.3	0.2
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°	2746.8	50.4
0°-40°	4234.5	77.8
0°-60°	5344.5	98.1
0°-90°	5446.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5446.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3487	3487	3487	3487	3487	
5°	3506	3468	3501	3468	3506	334
15°	3426	3448	3486	3448	3426	962
25°	3070	3132	3225	3132	3070	1401
35°	2346	2422	2480	2422	2346	1439
45°	997	1241	1099	1241	997	784
55°	169	253	171	253	169	164
65°	51	56	53	56	51	50
75°	28	31	31	31	28	30
85°	9	9	9	9	9	9
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	3487.0	3487.0	3487.0	3487.0	3487.0	3487.0	3487.0	3487.0	3487.0	3487.0	3487.0
2.5°	3490.2	3492.7	3495.2	3485.1	3470.9	3469.8	3481.9	3492.0	3495.9	3499.8	3495.9
5°	3506.0	3506.9	3507.8	3491.7	3469.9	3465.9	3479.7	3491.2	3496.1	3501.0	3496.1
7.5°	3498.2	3501.7	3505.1	3493.4	3476.6	3474.1	3485.8	3495.2	3497.8	3500.4	3497.8
10°	3499.0	3500.3	3501.7	3488.3	3470.1	3469.9	3487.7	3500.7	3499.3	3498.0	3499.3
12.5°	3478.2	3481.7	3485.1	3476.3	3463.4	3468.7	3492.2	3508.3	3502.4	3496.4	3502.4
15°	3426.0	3432.7	3439.3	3440.7	3440.2	3456.2	3488.7	3510.0	3498.0	3486.0	3498.0
17.5°	3339.8	3348.2	3356.7	3367.9	3380.1	3407.2	3449.3	3477.2	3462.6	3448.0	3462.6
20°	3271.0	3279.4	3287.9	3303.7	3321.9	3355.2	3403.7	3436.4	3422.2	3408.0	3422.2
22.5°	3196.6	3203.6	3210.6	3226.3	3244.9	3281.1	3334.9	3371.9	3358.8	3345.6	3358.8
25°	3070.0	3074.0	3078.0	3093.7	3113.2	3151.2	3207.7	3247.2	3236.1	3225.0	3236.1
27.5°	2898.2	2905.0	2911.9	2927.9	2947.0	2982.5	3034.2	3071.8	3067.1	3062.4	3067.1
30°	2751.0	2763.9	2776.8	2797.0	2819.7	2851.9	2893.7	2924.9	2924.4	2924.0	2924.4
32.5°	2596.6	2612.7	2628.8	2649.8	2672.5	2699.9	2732.1	2757.0	2760.1	2763.2	2760.1
35°	2346.0	2358.9	2371.8	2390.3	2410.8	2432.8	2456.3	2474.7	2477.3	2480.0	2477.3
37.5°	2026.8	2039.8	2052.8	2069.2	2086.8	2106.8	2129.3	2146.3	2146.8	2147.2	2146.8
40°	1794.0	1802.0	1810.0	1828.7	1850.9	1872.9	1894.7	1910.2	1907.1	1904.0	1907.1
42.5°	1555.6	1560.8	1565.9	1585.5	1609.8	1631.5	1650.4	1658.8	1635.8	1612.8	1635.8
45°	997.0	1080.1	1163.2	1205.3	1233.8	1248.7	1250.0	1234.1	1166.6	1099.0	1166.6
47.5°	516.2	597.6	679.0	765.7	854.0	874.7	827.8	774.4	701.5	628.6	701.5
50°	353.0	385.0	417.0	507.0	616.3	637.2	569.7	505.2	450.1	395.0	450.1
52.5°	263.4	279.0	294.7	364.6	452.6	462.1	393.1	334.6	307.6	280.6	307.6
55°	169.0	175.7	182.3	213.3	252.4	254.4	219.3	190.6	180.8	171.0	180.8
57.5°	104.0	112.7	121.4	134.9	150.0	150.2	135.3	121.9	112.8	103.6	112.8
60°	64.0	72.0	80.0	93.3	108.4	110.0	98.0	86.9	78.4	70.0	78.4
62.5°	57.6	60.6	63.6	73.3	85.2	86.3	76.4	68.2	65.1	62.0	65.1
65°	51.0	51.9	52.8	54.3	56.1	56.8	56.3	55.7	54.3	53.0	54.3
67.5°	43.8	45.1	46.5	47.1	47.6	48.0	48.5	48.6	47.7	46.8	47.7
70°	39.0	40.3	41.7	42.3	42.8	43.2	43.7	43.8	42.9	42.0	42.9
72.5°	35.0	36.0	37.0	37.5	38.0	38.4	38.9	39.0	38.1	37.2	38.1
75°	28.0	28.9	29.8	30.3	30.8	31.4	32.3	32.8	31.9	31.0	31.9
77.5°	22.0	22.9	23.8	24.3	24.6	25.0	25.5	25.6	24.8	24.0	24.8
80°	18.0	18.9	19.8	20.0	20.0	20.2	20.7	20.9	20.4	20.0	20.4
82.5°	14.0	14.5	15.1	15.2	15.2	15.4	15.9	16.2	16.1	16.0	16.1
85°	9.0	9.0	9.0	9.0	9.0	9.2	9.7	9.9	9.4	9.0	9.4
87.5°	2.4	2.8	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	3487.0	3487.0	3487.0	3487.0	3487.0	3487.0	3487.0	3487.0
2.5°	3492.0	3481.9	3469.8	3470.9	3485.1	3495.2	3492.7	3490.2
5°	3491.2	3479.7	3465.9	3469.9	3491.7	3507.8	3506.9	3506.0
7.5°	3495.2	3485.8	3474.1	3476.6	3493.4	3505.1	3501.7	3498.2
10°	3500.7	3487.7	3469.9	3470.1	3488.3	3501.7	3500.3	3499.0
12.5°	3508.3	3492.2	3468.7	3463.4	3476.3	3485.1	3481.7	3478.2
15°	3510.0	3488.7	3456.2	3440.2	3440.7	3439.3	3432.7	3426.0
17.5°	3477.2	3449.3	3407.2	3380.1	3367.9	3356.7	3348.2	3339.8
20°	3436.4	3403.7	3355.2	3321.9	3303.7	3287.9	3279.4	3271.0
22.5°	3371.9	3334.9	3281.1	3244.9	3226.3	3210.6	3203.6	3196.6
25°	3247.2	3207.7	3151.2	3113.2	3093.7	3078.0	3074.0	3070.0
27.5°	3071.8	3034.2	2982.5	2947.0	2927.9	2911.9	2905.0	2898.2
30°	2924.9	2893.7	2851.9	2819.7	2797.0	2776.8	2763.9	2751.0
32.5°	2757.0	2732.1	2699.9	2672.5	2649.8	2628.8	2612.7	2596.6
35°	2474.7	2456.3	2432.8	2410.8	2390.3	2371.8	2358.9	2346.0
37.5°	2146.3	2129.3	2106.8	2086.8	2069.2	2052.8	2039.8	2026.8
40°	1910.2	1894.7	1872.9	1850.9	1828.7	1810.0	1802.0	1794.0
42.5°	1658.8	1650.4	1631.5	1609.8	1585.5	1565.9	1560.8	1555.6
45°	1234.1	1250.0	1248.7	1233.8	1205.3	1163.2	1080.1	997.0
47.5°	774.4	827.8	874.7	854.0	765.7	679.0	597.6	516.2
50°	505.2	569.7	637.2	616.3	507.0	417.0	385.0	353.0
52.5°	334.6	393.1	462.1	452.6	364.6	294.7	279.0	263.4
55°	190.6	219.3	254.4	252.4	213.3	182.3	175.7	169.0
57.5°	121.9	135.3	150.2	150.0	134.9	121.4	112.7	104.0
60°	86.9	98.0	110.0	108.4	93.3	80.0	72.0	64.0
62.5°	68.2	76.4	86.3	85.2	73.3	63.6	60.6	57.6
65°	55.7	56.3	56.8	56.1	54.3	52.8	51.9	51.0
67.5°	48.6	48.5	48.0	47.6	47.1	46.5	45.1	43.8
70°	43.8	43.7	43.2	42.8	42.3	41.7	40.3	39.0
72.5°	39.0	38.9	38.4	38.0	37.5	37.0	36.0	35.0
75°	32.8	32.3	31.4	30.8	30.3	29.8	28.9	28.0
77.5°	25.6	25.5	25.0	24.6	24.3	23.8	22.9	22.0
80°	20.9	20.7	20.2	20.0	20.0	19.8	18.9	18.0
82.5°	16.2	15.9	15.4	15.2	15.2	15.1	14.5	14.0
85°	9.9	9.7	9.2	9.0	9.0	9.0	9.0	9.0
87.5°	3.2	3.2	3.2	3.2	3.2	3.1	2.8	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)