

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: P559738

Luminaire Tested: **DL2-WB-M-0U-100D-930-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559738
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DL2-WB-M-0U-100D-930-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

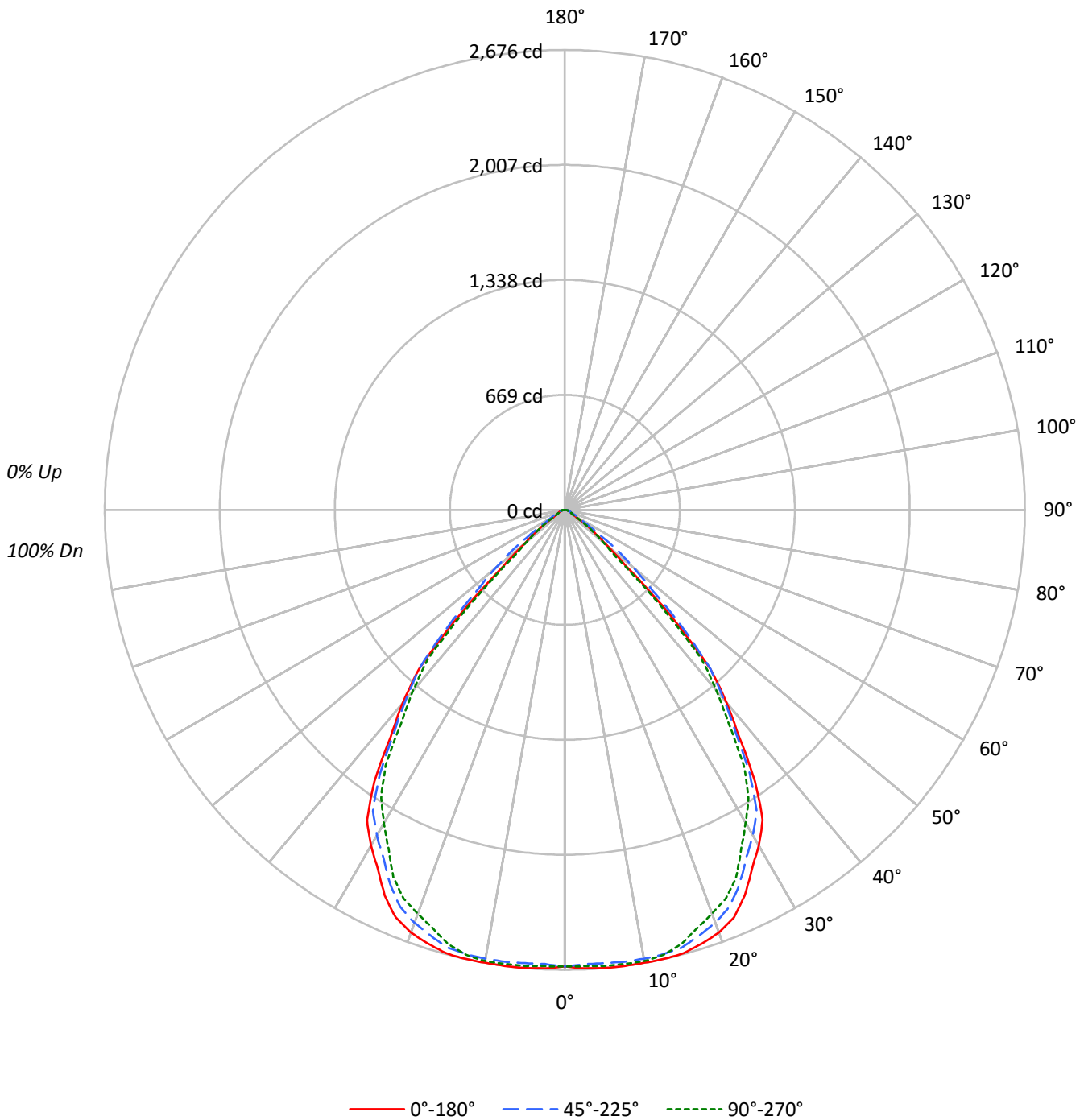
Lumens per Lamp: N/A
Luminaire Lumens: 4193.8 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.18 / 1.17
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.1
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	84	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	78	74	70	77	73	70	68				68
5	87	77	70	65	85	76	70	65	74	69	64	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	60	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	48	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°
0°	42908	42908	42908
5°	43366	42914	43195
10°	43868	43474	43710
15°	44645	44067	43729
20°	44983	43941	42967
25°	44121	42836	42013
30°	42049	40775	39217
35°	38047	36947	35792
40°	30895	30266	28928
45°	19788	21984	17790
50°	7754	13021	6983
55°	3654	5956	3654
60°	1741	2887	1586
65°	1582	1654	1471
70°	1496	1544	1407
75°	1497	1497	1379
80°	1432	1432	1339
85°	1241	1241	1241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.6	6.1
10°-20°	746.0	17.8
20°-30°	1107.2	26.4
30°-40°	1150.0	27.4
40°-50°	692.1	16.5
50°-60°	165.9	4.0
60°-70°	45.0	1.1
70°-80°	25.2	0.6
80°-90°	7.9	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°	2107.7	50.3
0°-40°	3257.7	77.7
0°-60°	4115.7	98.1
0°-90°	4193.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4193.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2658	2658	2658	2658	2658	
5°	2676	2669	2648	2676	2665	255
15°	2671	2690	2636	2635	2616	753
25°	2477	2494	2404	2372	2358	1133
35°	1930	1912	1874	1837	1816	1182
45°	867	969	963	916	779	662
55°	130	147	212	141	130	134
65°	41	42	43	41	38	41
75°	24	25	24	23	22	25
85°	7	8	7	7	7	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2657.5	2657.5	2657.5	2657.5	2657.5
2.5°	2670.5	2664.5	2645.1	2666.5	2657.5
5°	2675.7	2669.1	2647.8	2675.5	2665.1
7.5°	2676.5	2676.9	2651.7	2676.0	2664.6
10°	2675.7	2681.4	2651.7	2674.6	2666.1
12.5°	2676.5	2685.9	2648.6	2665.2	2652.3
15°	2670.9	2689.7	2636.3	2634.9	2616.1
17.5°	2646.5	2669.8	2597.4	2575.2	2553.0
20°	2618.0	2640.6	2557.4	2525.1	2500.7
22.5°	2568.8	2592.1	2500.5	2466.0	2448.4
25°	2476.6	2493.6	2404.5	2372.4	2358.3
27.5°	2355.4	2360.9	2283.3	2246.0	2221.9
30°	2255.4	2260.1	2187.1	2144.8	2103.5
32.5°	2140.8	2132.7	2077.1	2030.9	1988.0
35°	1930.3	1912.5	1874.5	1836.6	1815.9
37.5°	1663.5	1659.0	1631.4	1585.8	1561.0
40°	1465.8	1480.8	1436.0	1402.6	1372.5
42.5°	1254.2	1291.1	1252.1	1204.9	1179.4
45°	866.6	969.1	962.8	916.4	779.1
47.5°	481.9	610.9	688.5	540.0	399.5
50°	308.7	397.1	518.4	325.9	278.0
52.5°	216.4	264.9	383.0	231.0	204.9
55°	129.8	146.8	211.6	141.1	129.8
57.5°	78.5	94.8	120.2	94.6	76.8
60°	53.9	68.0	89.4	63.2	49.1
62.5°	46.9	52.0	69.4	49.5	44.4
65°	41.4	42.3	43.3	41.3	38.5
67.5°	35.6	37.5	36.5	35.7	33.7
70°	31.7	33.6	32.7	32.6	29.8
72.5°	28.7	30.5	29.6	28.8	26.7
75°	24.0	25.0	24.0	23.1	22.1
77.5°	18.5	19.4	19.2	18.4	17.5
80°	15.4	16.3	15.4	15.4	14.4
82.5°	12.3	12.5	12.3	11.5	11.3
85°	6.7	7.7	6.7	6.7	6.7
87.5°	2.3	2.3	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)