

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: P559671

Luminaire Tested: **DL2-BB-M-100U-125D-940-UNV-STD-W-4**

Issue Date: 3/5/2020

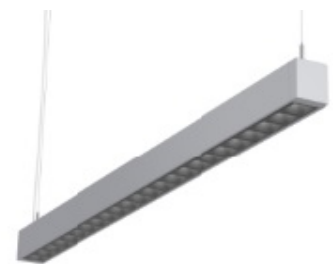
Test Information

Test Method: LM-79-08
Report Number: P559671
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-12, G3-2104-222-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DL2-BB-M-100U-125D-940-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

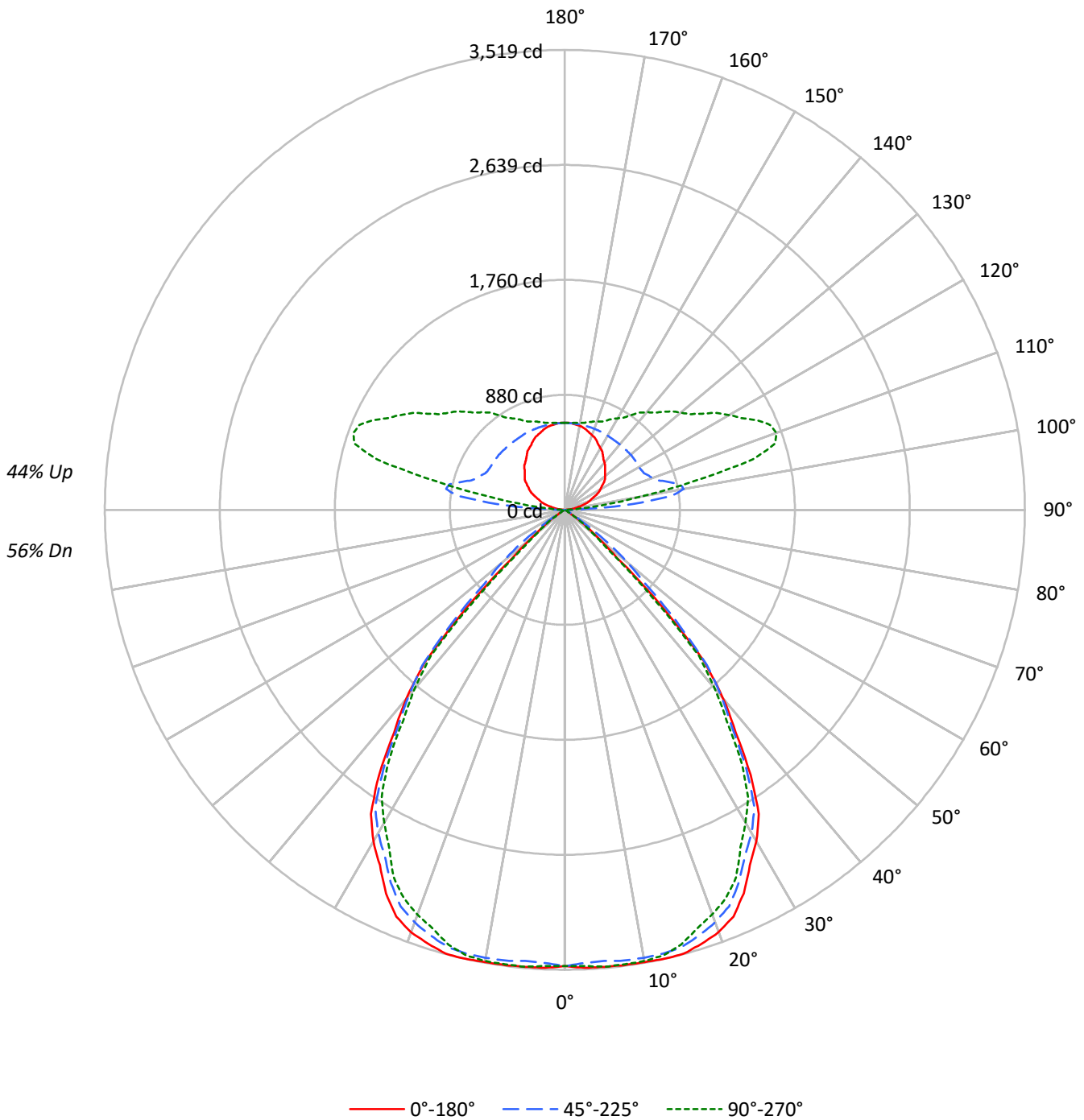
Lumens per Lamp: N/A
Luminaire Lumens: 9412.2 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.18 / 1.17
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 82.4
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	101	98	95	92	94	91	89	86	79	77	76	68	67	66	58	57	56	52
2	94	88	83	79	88	83	78	75	72	69	66	63	61	59	54	52	51	47
3	88	80	74	69	82	75	70	65	66	62	59	58	55	52	50	48	46	43
4	81	72	66	60	76	68	62	58	60	56	52	53	50	47	46	44	42	39
5	76	66	59	54	71	62	56	51	55	51	47	49	45	43	43	40	38	35
6	70	60	53	48	66	57	51	46	51	46	42	45	41	39	40	37	35	32
7	66	55	48	43	62	52	46	41	47	42	38	42	38	35	37	34	32	30
8	62	51	44	39	58	48	42	37	43	38	35	39	35	32	35	32	29	27
9	58	47	40	35	54	44	38	34	40	35	32	36	32	29	32	29	27	25
10	54	43	37	32	51	41	35	31	37	32	29	34	30	27	30	27	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	56373	56373	56373
5°	56879	56177	56879
10°	57605	57053	57484
15°	58766	57867	57549
20°	59103	57725	56620
25°	57671	56074	55228
30°	54611	53235	51505
35°	48839	47695	46365
40°	39774	39195	37595
45°	24279	27505	21870
50°	7922	15395	6968
55°	2702	5433	2792
60°	203	1566	68
65°	42	80	0
70°	0	52	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.1	3.5
10°-20°	981.1	10.4
20°-30°	1450.0	15.4
30°-40°	1490.2	15.8
40°-50°	860.7	9.1
50°-60°	149.1	1.6
60°-70°	5.6	0.1
70°-80°	0.1	0.0
80°-90°	1.5	0.0
90°-100°	277.8	3.0
100°-110°	840.2	8.9
110°-120°	820.3	8.7
120°-130°	670.3	7.1
130°-140°	547.1	5.8
140°-150°	425.9	4.5
150°-160°	307.0	3.3
160°-170°	187.9	2.0
170°-180°	63.5	0.7
0°-30°	2765.2	29.4
0°-40°	4255.4	45.2
0°-60°	5265.3	55.9
0°-90°	5272.5	56.0
90°-120°	1938.3	20.6
90°-150°	3581.6	38.1
90°-180°	4140.0	44.0
0°-180°	9412.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3492	3492	3492	3492	3492	
5°	3509	3499	3466	3517	3509	335
15°	3516	3542	3462	3468	3443	990
25°	3237	3266	3148	3112	3100	1480
35°	2478	2479	2420	2382	2352	1525
45°	1063	1207	1205	1140	958	813
55°	96	112	193	110	99	108
65°	1	1	2	1	0	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	2	12	7	6	2
95°	34	109	524	194	122	41
105°	146	205	825	1567	1489	154
115°	260	310	667	1381	1622	257
125°	363	403	658	1090	1283	323
135°	436	481	654	940	1058	337
145°	509	546	654	809	884	319
155°	580	599	658	725	753	267
165°	634	641	661	686	694	179
175°	663	663	664	669	667	63
180°	665	665	665	665	665	



TEST NUMBER: P559671

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3491.5	3491.5	3491.5	3491.5	3491.5
2.5°	3507.5	3497.6	3469.5	3501.4	3494.0
5°	3509.4	3499.1	3466.1	3516.6	3509.4
7.5°	3512.8	3506.4	3478.2	3517.8	3506.2
10°	3513.6	3514.6	3479.9	3514.5	3506.2
12.5°	3518.7	3528.8	3476.5	3504.2	3490.2
15°	3515.7	3541.5	3461.9	3467.7	3442.9
17.5°	3480.3	3517.4	3415.3	3390.3	3359.4
20°	3439.8	3476.9	3359.6	3326.2	3295.3
22.5°	3368.0	3408.5	3282.8	3246.1	3217.6
25°	3237.2	3266.1	3147.6	3111.5	3100.1
27.5°	3065.1	3075.4	2983.7	2936.0	2909.4
30°	2929.2	2927.2	2855.4	2800.7	2762.6
32.5°	2761.3	2771.6	2699.3	2648.0	2609.0
35°	2477.8	2478.8	2419.8	2382.2	2352.3
37.5°	2147.0	2141.8	2101.0	2050.4	2033.5
40°	1887.1	1894.3	1859.6	1802.3	1783.7
42.5°	1585.8	1633.5	1609.0	1541.4	1518.7
45°	1063.3	1206.6	1204.6	1140.3	957.8
47.5°	544.1	723.5	831.4	651.2	436.9
50°	315.4	428.8	612.9	338.3	277.4
52.5°	199.8	253.8	435.6	219.9	184.6
55°	96.0	111.5	193.0	109.5	99.2
57.5°	35.0	52.1	85.7	53.2	37.6
60°	6.3	21.8	48.5	14.5	2.1
62.5°	2.1	6.0	28.3	3.7	1.3
65°	1.1	1.1	2.1	1.0	0.0
67.5°	0.0	1.0	1.1	0.0	0.0
70°	0.0	1.0	1.1	0.0	0.0
72.5°	0.0	0.2	0.2	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.4	2.5	1.5	1.3
90°	0.0	2.0	12.5	7.3	6.3
92.5°	11.7	47.2	169.6	56.2	40.5
95°	34.5	109.0	524.2	193.7	122.2
97.5°	66.6	138.7	826.2	546.7	332.9
100°	86.7	157.1	923.2	892.5	599.4
102.5°	109.2	177.2	903.1	1251.8	997.9
105°	146.2	205.4	825.0	1566.8	1489.2
107.5°	181.3	237.9	749.8	1597.9	1687.8
110°	204.7	258.8	712.2	1558.7	1722.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	227.2	279.7	689.7	1492.8	1699.5
115°	260.0	310.1	667.3	1380.8	1621.8
117.5°	292.6	340.0	659.4	1275.9	1522.6
120°	314.3	359.3	656.9	1214.7	1451.6
122.5°	334.4	376.9	656.9	1160.8	1379.7
125°	363.4	403.2	657.9	1090.4	1283.4
127.5°	387.0	428.3	656.9	1037.4	1202.0
130°	402.1	444.9	656.9	1007.0	1156.0
132.5°	415.4	459.1	656.0	979.1	1116.8
135°	435.5	481.4	653.7	940.4	1057.9
137.5°	457.8	501.5	653.7	899.1	1008.0
140°	472.0	514.9	653.7	872.2	975.4
142.5°	486.2	527.5	652.9	847.7	937.8
145°	508.6	546.4	653.7	809.0	884.5
147.5°	530.9	563.0	655.0	777.0	835.0
150°	545.1	574.7	655.8	759.3	808.3
152.5°	558.5	584.8	656.7	744.0	784.1
155°	579.6	599.0	657.9	725.4	752.9
157.5°	598.0	613.7	659.2	711.6	730.8
160°	608.8	622.1	660.0	703.1	717.4
162.5°	619.7	629.7	660.8	695.6	707.4
165°	633.9	641.0	661.0	686.3	694.5
167.5°	646.0	649.7	662.3	679.1	682.5
170°	652.7	654.7	663.1	675.7	676.7
172.5°	656.9	658.1	663.1	672.3	672.5
175°	663.1	663.1	664.2	669.3	667.3
177.5°	666.0	665.2	664.4	666.8	665.2
180°	665.2	665.2	665.2	665.2	665.2

(END OF REPORT)