

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: P559666

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

Issue Date: 3/5/2020

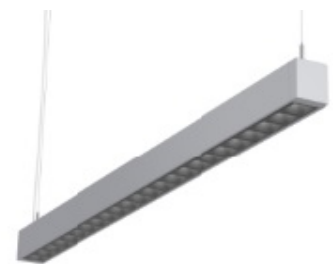
Test Information

Test Method: LM-79-08
Report Number: P559666
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-12, G3-2104-222-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DL2-BB-M-100U-100D-930-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

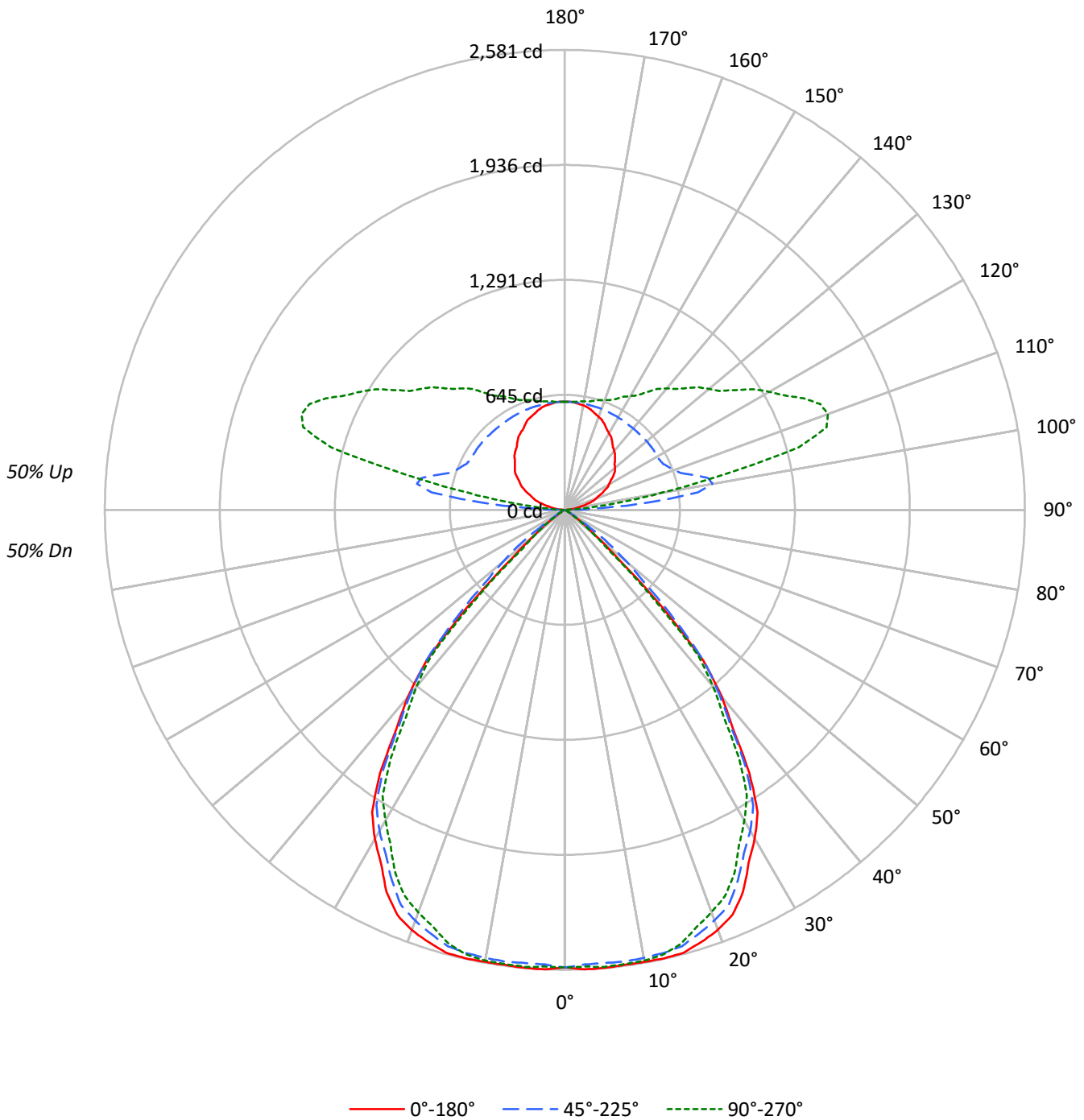
Lumens per Lamp: N/A
Luminaire Lumens: 7620.5 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 70.7
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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	57	57	57	50				
1	100	96	93	90	92	89	87	84	76	74	73	64	63	62	53	52	52	46				
2	93	87	82	77	86	81	76	73	69	66	64	59	57	55	49	48	47	42				
3	86	78	72	67	80	73	68	63	63	59	56	54	51	49	46	44	42	39				
4	80	71	64	59	74	66	60	56	58	53	50	50	47	44	42	40	38	35				
5	74	64	57	52	69	60	54	49	53	48	44	46	42	40	39	37	35	32				
6	69	58	51	46	64	55	49	44	48	44	40	42	39	36	36	34	32	29				
7	64	53	46	41	60	50	44	40	44	40	36	39	35	33	34	31	29	27				
8	60	49	42	37	56	46	40	36	41	36	33	36	32	30	32	29	27	25				
9	56	45	38	34	52	43	37	32	38	33	30	34	30	27	29	27	25	23				
10	53	42	35	31	49	40	34	30	35	31	27	31	28	25	28	25	23	21				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	41463	41463	41463
5°	41823	41371	41715
10°	42228	41850	42119
15°	43005	42379	42121
20°	43115	42156	41297
25°	42150	40898	40093
30°	39733	38782	37545
35°	35597	34970	33567
40°	28877	28391	27276
45°	17575	19927	15773
50°	5606	11263	5124
55°	1951	4090	2004
60°	155	1182	32
65°	0	73	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.4	3.2
10°-20°	717.7	9.4
20°-30°	1057.8	13.9
30°-40°	1083.3	14.2
40°-50°	624.2	8.2
50°-60°	109.3	1.4
60°-70°	4.2	0.1
70°-80°	0.0	0.0
80°-90°	1.4	0.0
90°-100°	253.5	3.3
100°-110°	766.7	10.1
110°-120°	748.4	9.8
120°-130°	611.6	8.0
130°-140°	499.2	6.6
140°-150°	388.6	5.1
150°-160°	280.2	3.7
160°-170°	171.5	2.3
170°-180°	57.9	0.8
0°-30°	2020.9	26.5
0°-40°	3104.2	40.7
0°-60°	3837.7	50.4
0°-90°	3843.3	50.4
90°-120°	1768.6	23.2
90°-150°	3268.0	42.9
90°-180°	3778.0	49.6
0°-180°	7620.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2568	2568	2568	2568	2568	
5°	2580	2575	2553	2583	2574	246
15°	2573	2594	2535	2535	2520	724
25°	2366	2384	2296	2275	2250	1080
35°	1806	1796	1774	1731	1703	1108
45°	770	861	873	829	691	589
55°	69	83	145	79	71	77
65°	0	1	2	1	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	2	11	7	6	1
95°	31	100	478	177	112	37
105°	133	187	753	1430	1359	140
115°	237	283	609	1260	1480	235
125°	332	368	600	995	1171	295
135°	397	439	596	858	965	308
145°	464	498	596	738	807	291
155°	529	546	600	662	687	243
165°	578	585	603	626	634	163
175°	605	605	606	611	609	57
180°	607	607	607	607	607	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2568.0	2568.0	2568.0	2568.0	2568.0
2.5°	2581.1	2574.3	2554.2	2574.7	2565.7
5°	2580.5	2574.9	2552.6	2583.2	2573.8
7.5°	2575.7	2574.4	2557.2	2581.2	2570.5
10°	2575.7	2580.4	2552.6	2577.4	2569.0
12.5°	2577.2	2588.0	2548.0	2567.3	2555.1
15°	2572.8	2593.5	2535.3	2535.0	2519.9
17.5°	2544.0	2568.4	2495.1	2475.2	2455.1
20°	2509.3	2537.5	2453.5	2425.1	2403.5
22.5°	2459.3	2486.8	2401.2	2368.9	2347.3
25°	2366.0	2383.8	2295.7	2275.0	2250.5
27.5°	2233.6	2244.1	2175.6	2139.7	2117.7
30°	2131.2	2138.7	2080.2	2041.1	2013.8
32.5°	2012.7	2009.6	1967.0	1927.2	1901.4
35°	1806.0	1795.6	1774.2	1731.3	1703.0
37.5°	1551.8	1549.9	1528.7	1491.5	1461.9
40°	1370.1	1368.2	1347.0	1313.9	1294.1
42.5°	1150.0	1185.7	1160.8	1120.1	1107.8
45°	769.7	861.0	872.7	829.1	690.8
47.5°	397.2	519.1	607.7	473.3	327.9
50°	223.2	313.5	448.4	253.8	204.0
52.5°	145.5	189.1	312.9	162.0	137.0
55°	69.3	83.4	145.3	78.7	71.2
57.5°	24.8	38.4	63.5	38.9	24.1
60°	4.8	16.1	36.6	11.3	1.0
62.5°	1.7	4.7	21.2	3.0	1.0
65°	0.0	0.9	1.9	0.9	0.0
67.5°	0.0	0.8	0.8	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	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	2.3	1.3	1.1
90°	0.0	1.9	11.4	6.6	5.7
92.5°	10.7	43.1	154.7	51.3	37.0
95°	31.4	99.5	478.3	176.7	111.5
97.5°	60.8	126.6	753.9	498.9	303.8
100°	79.1	143.4	842.3	814.3	546.9
102.5°	99.7	161.7	824.0	1142.2	910.5
105°	133.4	187.4	752.8	1429.6	1358.8
107.5°	165.4	217.0	684.1	1458.0	1540.0
110°	186.8	236.1	649.8	1422.2	1571.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	207.3	255.2	629.3	1362.1	1550.7
115°	237.3	282.9	608.9	1259.9	1479.8
117.5°	267.0	310.2	601.6	1164.2	1389.3
120°	286.8	327.8	599.3	1108.3	1324.5
122.5°	305.1	343.9	599.3	1059.2	1258.9
125°	331.6	367.9	600.3	995.0	1171.1
127.5°	353.1	390.8	599.3	946.5	1096.7
130°	366.8	406.0	599.3	918.8	1054.8
132.5°	379.0	418.9	598.6	893.4	1019.0
135°	397.3	439.3	596.5	858.1	965.2
137.5°	417.7	457.6	596.5	820.4	919.7
140°	430.7	469.8	596.5	795.9	890.0
142.5°	443.6	481.3	595.7	773.5	855.7
145°	464.0	498.5	596.5	738.1	807.1
147.5°	484.4	513.7	597.6	709.0	761.9
150°	497.4	524.4	598.4	692.8	737.5
152.5°	509.6	533.6	599.2	678.9	715.4
155°	528.8	546.5	600.3	661.8	687.0
157.5°	545.6	559.9	601.4	649.3	666.8
160°	555.5	567.6	602.2	641.6	654.6
162.5°	565.4	574.6	603.0	634.7	645.5
165°	578.4	584.9	603.2	626.2	633.6
167.5°	589.4	592.8	604.3	619.6	622.8
170°	595.5	597.4	605.1	616.5	617.4
172.5°	599.3	600.5	605.1	613.4	613.6
175°	605.1	605.1	606.0	610.7	608.9
177.5°	607.7	607.0	606.2	608.5	607.0
180°	607.0	607.0	607.0	607.0	607.0

(END OF REPORT)