

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: P559661

Luminaire Tested: **DL2-BB-M-100U-050D-935-UNV-STD-W-4**

Issue Date: 3/5/2020

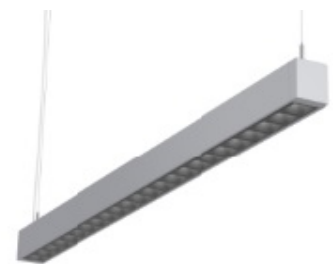
Test Information

Test Method: LM-79-08
Report Number: P559661
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-12, G3-2104-222-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DL2-BB-M-100U-050D-935-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

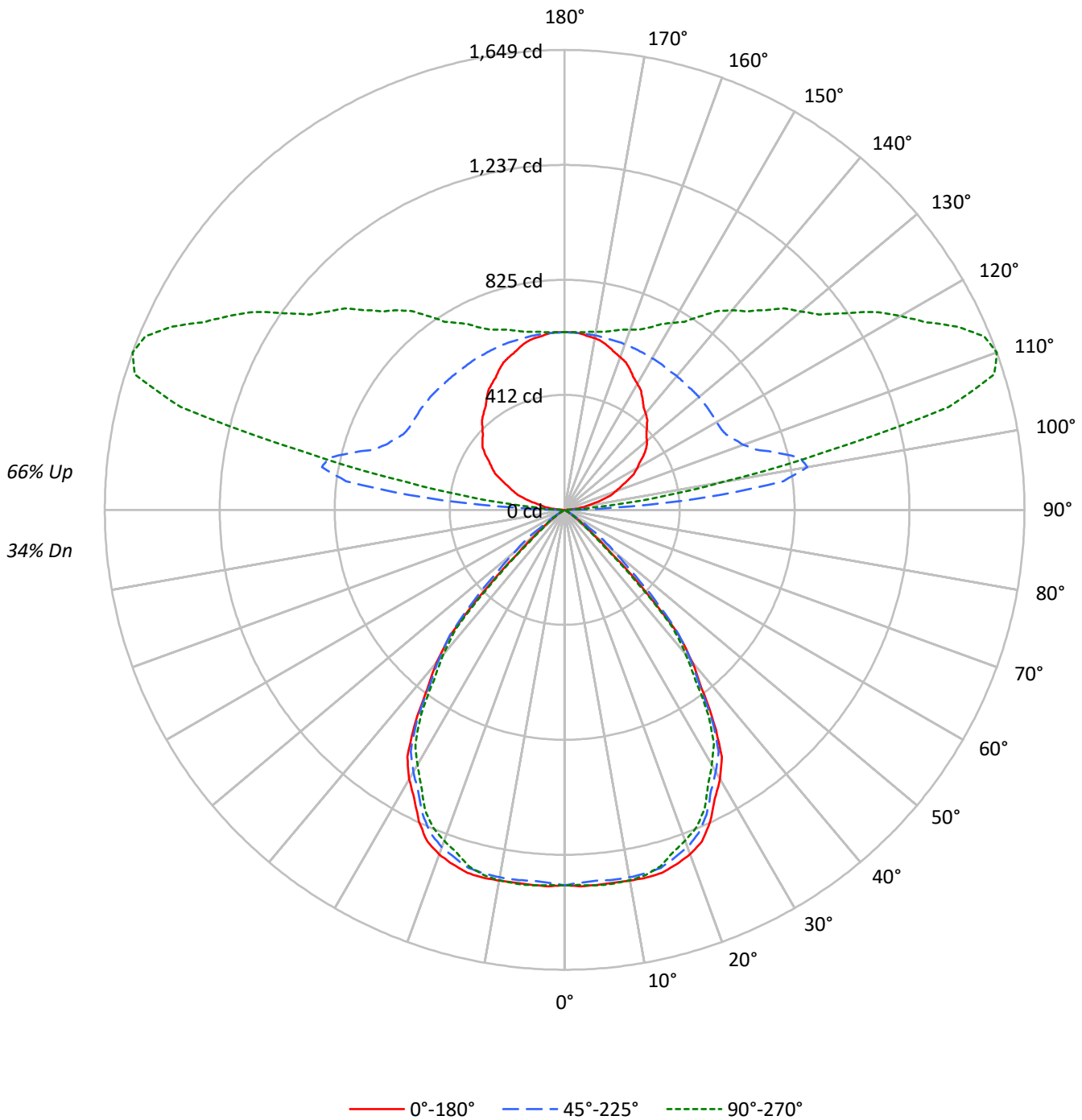
Lumens per Lamp: N/A
Luminaire Lumens: 5973.5 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 50.7
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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34				
1	95	92	88	85	86	83	80	78	67	65	63	52	51	50	38	38	37	31				
2	88	82	76	72	80	74	70	66	60	57	55	47	46	44	35	34	34	28				
3	81	73	67	62	73	67	61	57	54	51	48	43	41	39	33	31	30	26				
4	75	66	59	53	68	60	54	50	49	45	42	39	37	35	30	29	27	23				
5	69	59	52	47	63	54	48	43	45	40	37	36	33	31	28	26	25	21				
6	64	54	46	41	58	49	43	38	41	36	33	33	30	28	26	24	23	19				
7	60	49	42	37	54	45	39	34	37	33	30	31	27	25	24	22	21	18				
8	56	44	37	33	50	41	35	31	34	30	27	28	25	23	22	20	19	16				
9	52	41	34	29	47	38	32	28	32	27	24	26	23	21	21	19	17	15				
10	49	38	31	27	44	35	29	25	29	25	22	24	21	19	19	17	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21727	21727	21727
5°	21875	21632	21908
10°	22128	21931	22112
15°	22527	22226	22126
20°	22589	22108	21696
25°	21994	21460	21121
30°	20780	20221	19680
35°	18419	18203	17690
40°	15036	14825	14235
45°	8864	10462	8248
50°	2992	5830	2665
55°	1013	2083	1070
60°	97	614	32
65°	0	38	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°	128.6	2.2
10°-20°	376.4	6.3
20°-30°	553.9	9.3
30°-40°	565.9	9.5
40°-50°	325.3	5.4
50°-60°	56.9	1.0
60°-70°	2.1	0.0
70°-80°	0.0	0.0
80°-90°	1.5	0.0
90°-100°	266.0	4.5
100°-110°	804.4	13.5
110°-120°	785.2	13.1
120°-130°	641.7	10.7
130°-140°	523.8	8.8
140°-150°	407.7	6.8
150°-160°	293.9	4.9
160°-170°	179.9	3.0
170°-180°	60.8	1.0
0°-30°	1058.8	17.7
0°-40°	1624.7	27.2
0°-60°	2007.0	33.6
0°-90°	2010.5	33.7
90°-120°	1855.6	31.1
90°-150°	3428.7	57.4
90°-180°	3963.0	66.3
0°-180°	5973.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1346	1346	1346	1346	1346	
5°	1350	1347	1335	1354	1352	129
15°	1348	1359	1330	1330	1324	380
25°	1235	1245	1205	1192	1186	564
35°	934	939	924	908	898	577
45°	388	452	458	435	361	304
55°	36	43	74	42	38	41
65°	0	0	1	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	2	12	7	6	2
95°	33	104	502	185	117	39
105°	140	197	790	1500	1426	147
115°	249	297	639	1322	1553	246
125°	348	386	630	1044	1229	309
135°	417	461	626	900	1013	323
145°	487	523	626	774	847	305
155°	555	573	630	694	721	255
165°	607	614	633	657	665	171
175°	635	635	636	641	639	60
180°	637	637	637	637	637	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1345.7	1345.7	1345.7	1345.7	1345.7
2.5°	1351.3	1348.2	1337.7	1349.6	1346.5
5°	1349.7	1346.8	1334.7	1353.7	1351.7
7.5°	1348.9	1346.6	1338.5	1355.0	1351.1
10°	1349.7	1349.7	1337.7	1352.6	1348.7
12.5°	1351.3	1355.2	1335.3	1347.0	1341.5
15°	1347.7	1359.4	1329.7	1330.5	1323.7
17.5°	1333.1	1348.9	1308.3	1298.6	1288.3
20°	1314.7	1331.3	1286.7	1271.5	1262.7
22.5°	1286.7	1302.5	1255.5	1242.6	1233.0
25°	1234.6	1245.4	1204.6	1191.5	1185.6
27.5°	1166.6	1172.1	1136.6	1123.0	1113.2
30°	1114.6	1114.6	1084.6	1069.2	1055.6
32.5°	1049.7	1046.6	1026.9	1009.2	996.3
35°	934.5	939.4	923.5	908.2	897.5
37.5°	807.0	811.7	795.4	778.0	770.6
40°	713.4	717.3	703.4	685.1	675.4
42.5°	598.1	619.2	606.5	586.6	573.7
45°	388.2	451.8	458.2	434.6	361.2
47.5°	202.3	268.8	317.8	242.7	170.1
50°	119.1	162.1	232.1	132.5	106.1
52.5°	76.6	95.4	163.3	84.7	71.6
55°	36.0	42.9	74.0	41.9	38.0
57.5°	13.4	20.1	33.4	20.3	14.6
60°	3.0	8.9	19.0	5.9	1.0
62.5°	0.6	2.6	11.0	1.2	0.2
65°	0.0	0.0	1.0	0.0	0.0
67.5°	0.0	0.0	0.0	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	2.4	1.4	1.2
90°	0.0	2.0	12.0	7.0	6.0
92.5°	11.2	45.2	162.4	53.8	38.8
95°	33.0	104.3	501.9	185.4	117.0
97.5°	63.8	132.8	791.0	523.4	318.7
100°	83.0	150.4	883.8	854.4	573.8
102.5°	104.6	169.7	864.6	1198.4	955.3
105°	140.0	196.7	789.8	1499.9	1425.6
107.5°	173.6	227.7	717.8	1529.7	1615.8
110°	195.9	247.8	681.8	1492.2	1648.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	217.5	267.8	660.2	1429.1	1627.0
115°	248.9	296.8	638.8	1321.9	1552.6
117.5°	280.1	325.5	631.2	1221.4	1457.6
120°	300.9	343.9	628.8	1162.8	1389.6
122.5°	320.1	360.8	628.8	1111.3	1320.8
125°	347.9	386.0	629.8	1043.9	1228.7
127.5°	370.5	410.0	628.8	993.1	1150.7
130°	384.9	426.0	628.8	964.0	1106.7
132.5°	397.7	439.5	628.0	937.3	1069.1
135°	416.9	460.9	625.8	900.3	1012.7
137.5°	438.3	480.1	625.8	860.7	964.9
140°	451.9	492.9	625.8	835.0	933.8
142.5°	465.5	505.0	625.0	811.5	897.8
145°	486.9	523.0	625.8	774.4	846.8
147.5°	508.3	539.0	627.0	743.9	799.4
150°	521.9	550.2	627.8	726.9	773.8
152.5°	534.7	559.9	628.6	712.3	750.6
155°	554.9	573.4	629.8	694.4	720.8
157.5°	572.4	587.5	631.0	681.2	699.6
160°	582.8	595.6	631.8	673.1	686.8
162.5°	593.2	602.8	632.6	665.9	677.2
165°	606.8	613.7	632.8	657.0	664.8
167.5°	618.4	622.0	634.0	650.1	653.4
170°	624.8	626.8	634.8	646.8	647.8
172.5°	628.8	630.0	634.8	643.6	643.8
175°	634.8	634.8	635.8	640.8	638.8
177.5°	637.6	636.8	636.0	638.4	636.8
180°	636.8	636.8	636.8	636.8	636.8

(END OF REPORT)