

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: P559721

Luminaire Tested: **DL2-WB-M-075U-050D-935-UNV-STD-W-4**

Issue Date: 3/5/2020

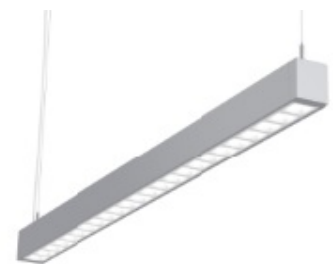
Test Information

Test Method: LM-79-08
Report Number: P559721
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-11, G3-2104-222-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DL2-WB-M-075U-050D-935-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5183.0 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.19 / 1.17
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

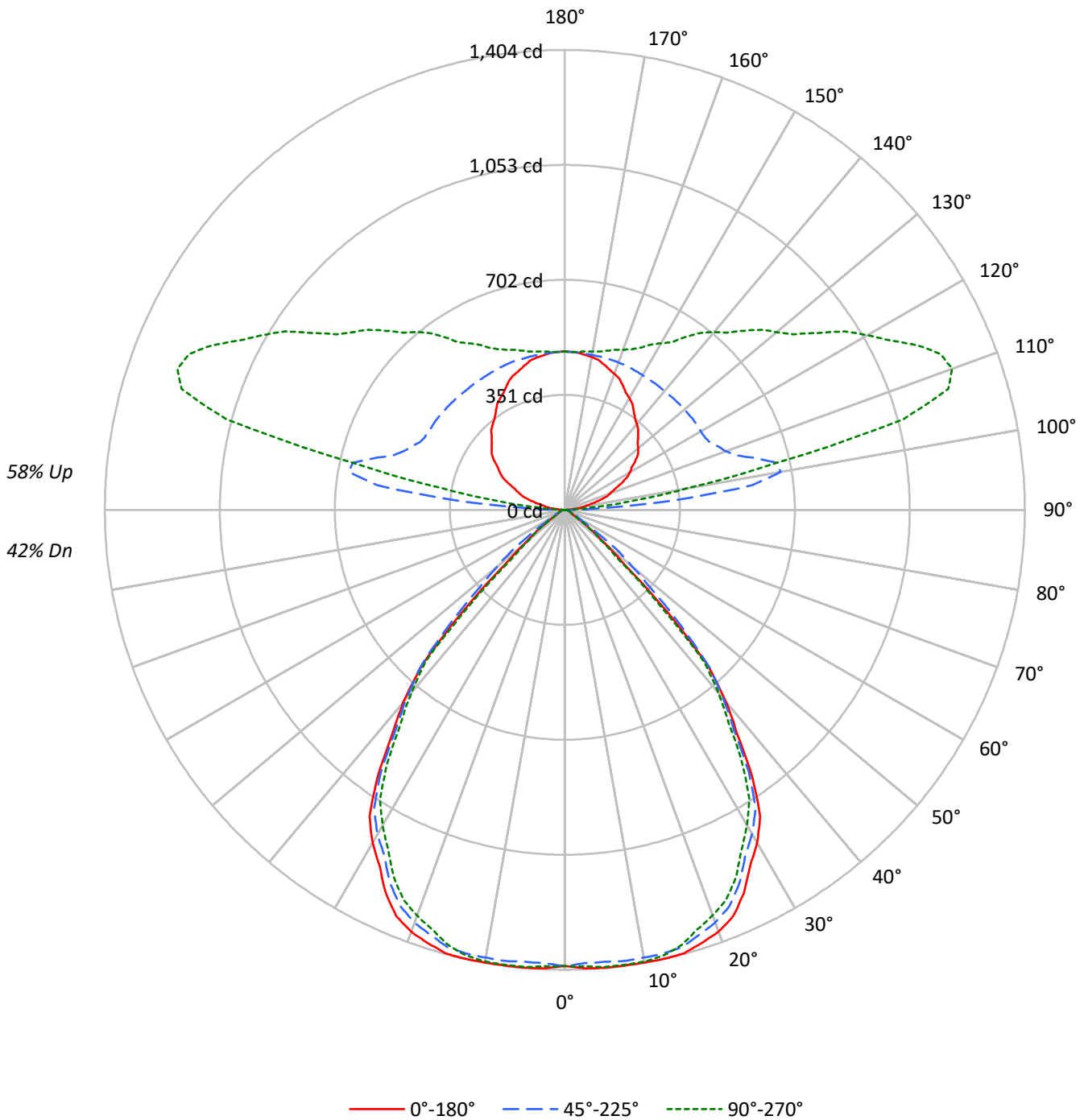
Input Watts (W): 41.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	98	94	91	88	89	86	83	81	71	70	68	58	57	56	46	45	44	39
2	90	84	79	74	82	77	73	69	65	61	59	53	51	49	42	41	40	35
3	83	75	69	64	76	69	64	60	58	55	51	48	46	44	39	37	36	32
4	77	68	61	55	71	63	57	52	53	49	45	44	41	39	36	34	32	29
5	71	61	54	49	65	57	50	46	48	44	40	40	37	35	33	31	29	26
6	66	55	48	43	61	52	45	41	44	39	36	37	34	31	31	28	27	24
7	62	51	43	38	57	47	41	36	40	36	32	34	31	28	28	26	24	22
8	57	46	39	34	53	43	37	33	37	32	29	32	28	26	26	24	22	20
9	54	42	36	31	49	40	34	29	34	30	26	29	26	23	25	22	20	18
10	50	39	33	28	46	37	31	27	32	27	24	27	24	21	23	21	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22491	22491	22491
5°	22739	22447	22707
10°	23002	22756	22953
15°	23435	23101	23000
20°	23557	23041	22646
25°	23017	22447	22019
30°	21888	21310	20732
35°	19671	19297	18607
40°	16166	15829	15365
45°	10229	11485	9225
50°	3969	6757	3642
55°	1914	3068	1942
60°	904	1518	840
65°	802	879	764
70°	803	803	755
75°	749	811	686
80°	744	744	651
85°	741	741	556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	2.6
10°-20°	391.4	7.6
20°-30°	579.5	11.2
30°-40°	600.3	11.6
40°-50°	360.8	7.0
50°-60°	86.3	1.7
60°-70°	23.5	0.5
70°-80°	13.1	0.3
80°-90°	4.7	0.1
90°-100°	182.6	3.5
100°-110°	605.5	11.7
110°-120°	600.9	11.6
120°-130°	489.5	9.4
130°-140°	397.8	7.7
140°-150°	308.9	6.0
150°-160°	222.6	4.3
160°-170°	136.3	2.6
170°-180°	46.0	0.9
0°-30°	1104.3	21.3
0°-40°	1704.6	32.9
0°-60°	2151.7	41.5
0°-90°	2192.9	42.3
90°-120°	1389.0	26.8
90°-150°	2585.2	49.9
90°-180°	2990.0	57.7
0°-180°	5183.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1393	1393	1393	1393	1393	
5°	1403	1398	1385	1403	1401	134
15°	1402	1411	1382	1383	1376	395
25°	1292	1304	1260	1244	1236	591
35°	998	996	979	961	944	614
45°	448	503	503	476	404	343
55°	68	78	109	73	69	69
65°	21	22	23	21	20	21
75°	12	13	13	12	11	13
85°	4	4	4	4	3	4
90°	0	1	3	4	4	1
95°	26	77	331	118	79	30
105°	106	151	606	1143	1069	112
115°	189	226	488	1016	1188	187
125°	264	293	479	798	941	235
135°	316	348	475	685	773	245
145°	367	394	474	589	645	230
155°	419	434	477	526	546	193
165°	460	465	479	498	503	130
175°	481	481	482	485	484	46
180°	483	483	483	483	483	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1393.0	<i>1393.0</i>	1393.0	1393.0	1393.0
2.5°	1401.0	<i>1396.3</i>	1385.0	1397.7	1394.6
5°	1403.0	<i>1398.1</i>	1385.0	1403.0	1401.0
7.5°	1403.0	<i>1399.9</i>	1388.8	1403.7	1400.8
10°	1403.0	<i>1403.0</i>	1388.0	1402.9	1400.0
12.5°	1403.8	<i>1407.7</i>	1387.2	1398.1	1393.6
15°	<i>1402.0</i>	<i>1410.8</i>	<i>1382.0</i>	<i>1382.8</i>	<i>1376.0</i>
17.5°	1387.0	<i>1400.7</i>	1361.0	1353.0	1343.6
20°	1371.0	<i>1384.7</i>	1341.0	1325.8	1318.0
22.5°	1343.0	<i>1357.5</i>	1310.6	1296.2	1287.6
25°	1292.0	<i>1303.7</i>	1260.0	1243.8	1236.0
27.5°	1224.4	<i>1229.7</i>	1191.8	1176.6	1168.0
30°	1174.0	<i>1173.0</i>	1143.0	1123.7	1112.0
32.5°	1109.2	<i>1110.6</i>	1083.0	1064.4	1048.8
35°	998.0	<i>996.0</i>	979.0	960.6	944.0
37.5°	865.4	<i>866.8</i>	848.6	829.1	822.6
40°	767.0	<i>769.9</i>	751.0	730.0	729.0
42.5°	647.0	<i>668.7</i>	655.0	633.1	629.0
45°	448.0	<i>502.8</i>	503.0	476.4	404.0
47.5°	249.2	<i>317.6</i>	358.6	282.8	211.4
50°	158.0	<i>203.0</i>	269.0	169.4	145.0
52.5°	112.4	<i>134.7</i>	199.4	120.9	105.8
55°	68.0	<i>77.8</i>	109.0	72.9	69.0
57.5°	41.6	<i>50.2</i>	63.8	49.4	41.2
60°	28.0	<i>35.8</i>	47.0	31.9	26.0
62.5°	24.8	<i>27.1</i>	36.6	25.6	23.6
65°	21.0	<i>22.0</i>	23.0	21.0	20.0
67.5°	18.6	<i>19.6</i>	19.4	18.6	17.6
70°	17.0	<i>18.0</i>	17.0	17.0	16.0
72.5°	15.4	<i>15.6</i>	15.4	14.6	14.4
75°	12.0	<i>13.0</i>	13.0	12.0	11.0
77.5°	9.6	<i>10.4</i>	9.6	9.6	8.6
80°	8.0	<i>8.0</i>	8.0	8.0	7.0
82.5°	6.4	<i>6.4</i>	6.4	6.4	5.4
85°	4.0	<i>4.0</i>	4.0	4.0	3.0
87.5°	1.6	<i>1.8</i>	2.2	1.6	1.6
90°	0.0	<i>1.0</i>	3.0	4.0	4.0
92.5°	8.0	<i>30.9</i>	91.0	29.5	24.8
95°	26.0	<i>76.8</i>	331.0	118.1	79.0
97.5°	47.8	<i>101.0</i>	577.7	336.9	213.0
100°	63.0	<i>113.8</i>	668.9	574.5	381.0
102.5°	79.8	<i>129.1</i>	663.3	878.0	663.3
105°	106.0	<i>151.0</i>	605.9	1143.2	1068.9
107.5°	132.8	<i>172.9</i>	550.9	1170.1	1226.6
110°	148.0	<i>188.1</i>	522.9	1143.5	1257.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.0	203.3	506.1	1096.2	1241.8
115°	189.0	226.1	487.9	1015.8	1187.9
117.5°	213.8	246.8	481.3	939.0	1119.5
120°	229.0	261.2	478.9	890.9	1065.9
122.5°	242.6	274.1	478.9	851.4	1013.1
125°	264.0	293.3	478.9	798.1	940.9
127.5°	281.6	310.3	477.7	757.9	879.9
130°	292.0	322.3	476.9	734.4	843.9
132.5°	301.6	332.7	476.1	715.0	813.5
135°	316.0	348.2	474.9	684.9	772.9
137.5°	331.6	362.6	473.7	655.9	733.5
140°	342.0	372.3	472.9	636.5	707.9
142.5°	351.6	381.1	473.7	617.2	680.7
145°	367.0	394.3	473.9	589.2	644.9
147.5°	383.6	406.4	474.1	565.5	606.9
150°	394.0	414.5	474.9	551.7	586.9
152.5°	403.5	423.3	475.7	540.4	568.5
155°	418.9	433.6	476.9	526.4	545.9
157.5°	433.9	445.3	478.1	516.5	530.3
160°	441.9	451.7	478.9	509.2	519.9
162.5°	449.9	457.4	478.9	504.3	512.7
165°	459.9	464.8	478.9	498.0	502.9
167.5°	469.1	471.7	479.9	492.4	494.9
170°	473.9	474.9	479.9	490.0	490.9
172.5°	477.1	478.1	480.7	487.5	487.7
175°	480.9	480.9	481.9	484.9	483.9
177.5°	482.9	482.9	482.1	483.7	482.1
180°	482.9	482.9	482.9	482.9	482.9

(END OF REPORT)