

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: P559744

Luminaire Tested: **DL2-WB-M-100U-050D-930-UNV-STD-W-4**

Issue Date: 3/5/2020

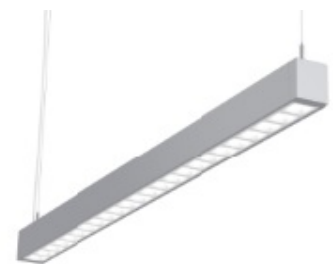
Test Information

Test Method: LM-79-08
Report Number: P559744
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-12, 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-100U-050D-930-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: 5921.7 lumens
Efficiency: N/A
Efficacy: 116.8 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: Semi-Indirect

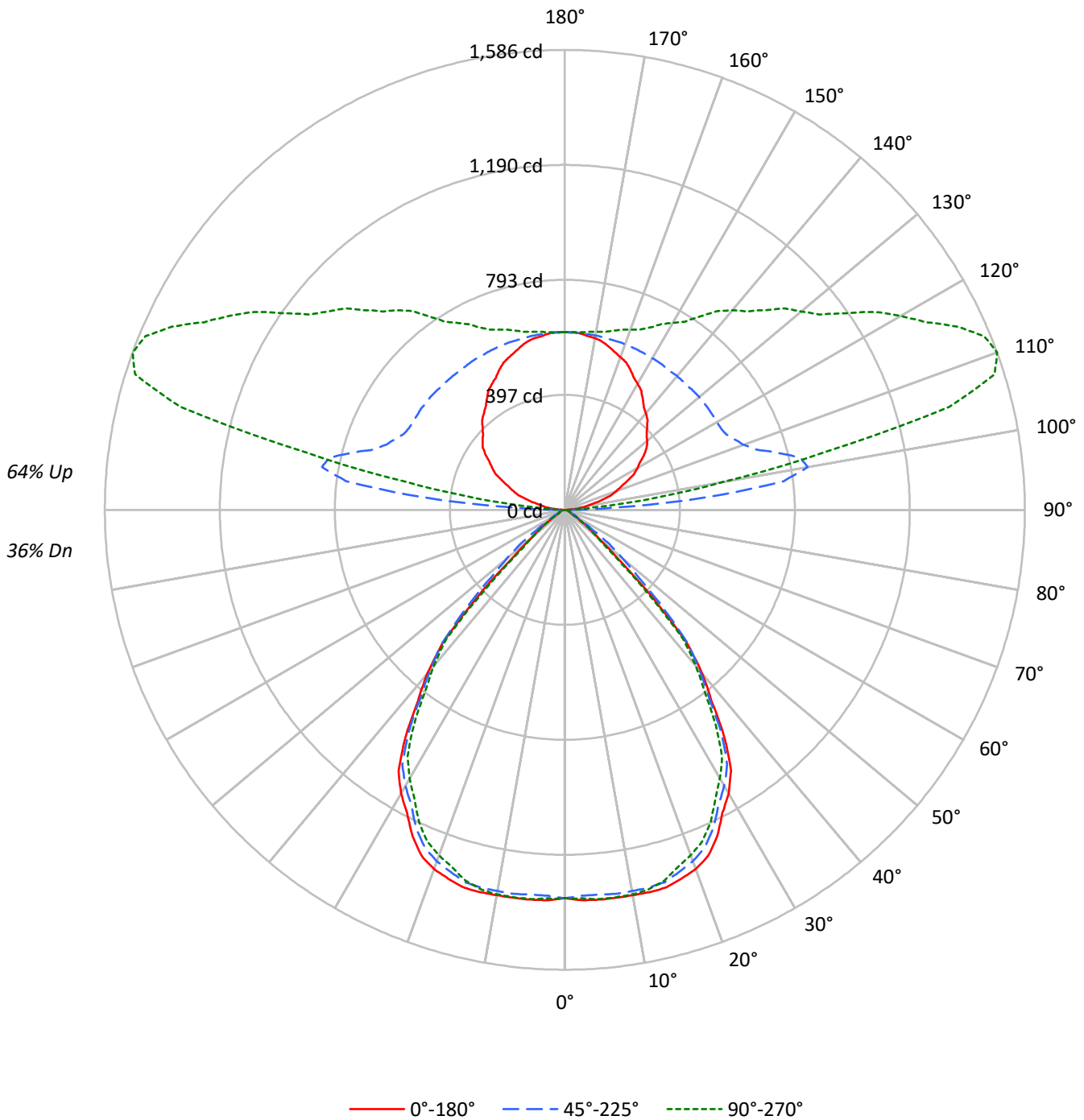
Input Watts (W): 50.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																		
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	36
1	96	92	89	86	87	84	81	78	68	66	64	53	52	51	40	39	39	33
2	88	82	77	72	80	75	70	66	61	58	55	48	46	45	37	36	35	29
3	81	73	67	62	74	67	62	57	55	51	48	44	42	40	34	32	31	27
4	75	66	59	54	68	60	54	50	50	46	42	40	37	35	31	29	28	24
5	70	59	52	47	63	54	48	44	45	41	37	37	34	31	29	27	25	22
6	64	54	46	41	59	49	43	38	41	37	33	34	31	28	27	25	23	20
7	60	49	42	37	54	45	39	34	38	33	30	31	28	25	25	23	21	18
8	56	44	37	33	51	41	35	31	35	30	27	29	25	23	23	21	19	17
9	52	41	34	29	47	38	32	28	32	27	24	26	23	21	21	19	18	15
10	49	38	31	26	44	35	29	25	30	25	22	25	21	19	20	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21632	21632	21632
5°	21870	21590	21840
10°	22123	21887	22076
15°	22539	22218	22121
20°	22656	22161	21780
25°	22137	21590	21178
30°	21052	20495	19939
35°	18920	18559	17895
40°	15548	15224	14779
45°	9839	11047	8873
50°	3818	6498	3504
55°	1841	2950	1869
60°	869	1460	807
65°	772	844	734
70°	774	774	727
75°	717	780	661
80°	716	716	623
85°	704	704	537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.3	2.2
10°-20°	376.4	6.4
20°-30°	557.4	9.4
30°-40°	577.4	9.8
40°-50°	347.0	5.9
50°-60°	83.0	1.4
60°-70°	22.6	0.4
70°-80°	12.6	0.2
80°-90°	5.1	0.1
90°-100°	255.8	4.3
100°-110°	773.7	13.1
110°-120°	755.2	12.8
120°-130°	617.2	10.4
130°-140°	503.8	8.5
140°-150°	392.2	6.6
150°-160°	282.7	4.8
160°-170°	173.1	2.9
170°-180°	58.4	1.0
0°-30°	1062.1	17.9
0°-40°	1639.5	27.7
0°-60°	2069.5	34.9
0°-90°	2109.8	35.6
90°-120°	1784.7	30.1
90°-150°	3297.8	55.7
90°-180°	3812.0	64.4
0°-180°	5921.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1349	1345	1332	1349	1348	129
15°	1348	1357	1329	1330	1323	380
25°	1243	1254	1212	1196	1189	568
35°	960	958	942	924	908	590
45°	431	484	484	458	389	329
55°	65	75	105	70	66	67
65°	20	21	22	20	19	21
75°	12	12	12	12	11	13
85°	4	4	4	4	3	4
90°	0	2	12	7	6	2
95°	32	100	483	178	112	38
105°	135	189	760	1443	1371	141
115°	239	286	614	1271	1493	237
125°	335	371	606	1004	1182	297
135°	401	443	602	866	974	310
145°	468	503	602	745	814	293
155°	534	552	606	668	693	246
165°	584	590	609	632	639	164
175°	611	611	612	616	614	58
180°	612	612	612	612	612	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1339.8	1339.8	1339.8	1339.8	1339.8
2.5°	1347.5	1343.0	1332.1	1344.3	1341.3
5°	1349.4	1344.7	1332.1	1349.4	1347.5
7.5°	1349.4	1346.4	1335.7	1350.1	1347.3
10°	1349.4	1349.4	1335.0	1349.3	1346.5
12.5°	1350.2	1353.9	1334.2	1344.7	1340.4
15°	1348.4	1356.9	1329.2	1330.0	1323.4
17.5°	1334.0	1347.2	1309.0	1301.3	1292.3
20°	1318.6	1331.8	1289.8	1275.2	1267.6
22.5°	1291.7	1305.6	1260.5	1246.7	1238.4
25°	1242.6	1253.9	1211.9	1196.3	1188.8
27.5°	1177.6	1182.7	1146.3	1131.7	1123.4
30°	1129.2	1128.2	1099.3	1080.8	1069.5
32.5°	1066.8	1068.1	1041.6	1023.8	1008.7
35°	959.9	958.0	941.6	923.9	907.9
37.5°	832.3	833.7	816.2	797.4	791.2
40°	737.7	740.5	722.3	702.1	701.2
42.5°	622.3	643.2	630.0	608.9	605.0
45°	430.9	483.5	483.8	458.2	388.6
47.5°	239.7	305.5	344.9	272.0	203.3
50°	152.0	195.2	258.7	163.0	139.5
52.5°	108.1	129.5	191.8	116.2	101.8
55°	65.4	74.8	104.8	70.1	66.4
57.5°	40.0	48.3	61.4	47.5	39.6
60°	26.9	34.5	45.2	30.6	25.0
62.5°	23.9	26.1	35.2	24.6	22.7
65°	20.2	21.1	22.1	20.2	19.2
67.5°	17.9	18.8	18.7	17.9	16.9
70°	16.4	17.3	16.4	16.3	15.4
72.5°	14.8	15.0	14.8	14.0	13.8
75°	11.5	12.5	12.5	11.5	10.6
77.5°	9.2	10.0	9.2	9.2	8.3
80°	7.7	7.7	7.7	7.7	6.7
82.5°	6.2	6.2	6.2	6.1	5.2
85°	3.8	3.8	3.8	3.8	2.9
87.5°	1.5	1.9	3.8	2.1	1.9
90°	0.0	1.9	11.5	6.7	5.8
92.5°	10.8	43.5	156.2	51.8	37.3
95°	31.7	100.4	482.7	178.3	112.5
97.5°	61.3	127.7	760.8	503.4	306.5
100°	79.8	144.7	850.0	821.8	551.9
102.5°	100.6	163.2	831.5	1152.6	918.8
105°	134.6	189.1	759.6	1442.6	1371.2
107.5°	166.9	219.0	690.4	1471.3	1554.0
110°	188.5	238.3	655.8	1435.2	1585.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	209.2	257.6	635.0	1374.5	1564.8
115°	239.4	285.5	614.4	1271.4	1493.3
117.5°	269.4	313.0	607.1	1174.8	1401.9
120°	289.4	330.8	604.8	1118.4	1336.5
122.5°	307.9	347.0	604.8	1068.8	1270.4
125°	334.6	371.3	605.8	1004.0	1181.7
127.5°	356.3	394.3	604.8	955.2	1106.7
130°	370.2	409.7	604.8	927.2	1064.4
132.5°	382.5	422.7	604.0	901.5	1028.3
135°	401.0	443.3	601.9	865.9	974.0
137.5°	421.5	461.8	601.9	827.9	928.1
140°	434.6	474.1	601.9	803.1	898.1
142.5°	447.7	485.7	601.2	780.5	863.5
145°	468.3	503.1	601.9	744.9	814.4
147.5°	488.8	518.4	603.1	715.4	768.8
150°	501.9	529.2	603.8	699.1	744.2
152.5°	514.2	538.5	604.6	685.1	721.9
155°	533.7	551.5	605.8	667.9	693.3
157.5°	550.6	565.1	606.9	655.2	672.9
160°	560.6	572.8	607.7	647.4	660.6
162.5°	570.6	579.8	608.5	640.4	651.3
165°	583.7	590.2	608.7	631.9	639.4
167.5°	594.8	598.2	609.8	625.3	628.5
170°	601.0	602.8	610.6	622.1	623.1
172.5°	604.8	605.9	610.6	619.0	619.2
175°	610.6	610.6	611.5	616.3	614.4
177.5°	613.3	612.5	611.7	614.0	612.5
180°	612.5	612.5	612.5	612.5	612.5

(END OF REPORT)