

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: P559720

Luminaire Tested: **DL2-WB-M-075U-050D-930-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559720
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-930-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: 4985.0 lumens
Efficiency: N/A
Efficacy: 120.4 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

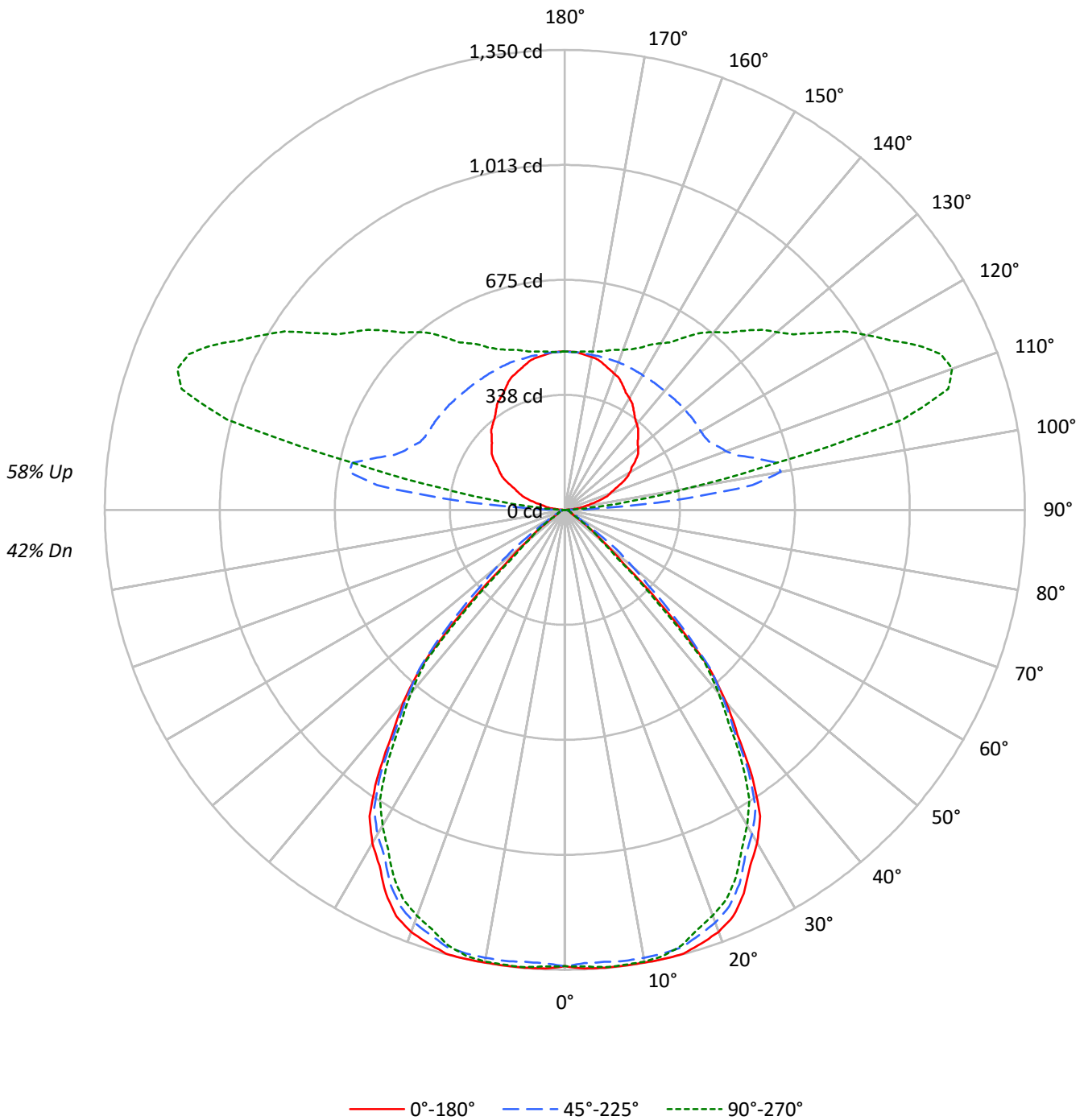
Input Watts (W): 41.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	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	2.6
10°-20°	376.4	7.6
20°-30°	557.4	11.2
30°-40°	577.4	11.6
40°-50°	347.0	7.0
50°-60°	83.0	1.7
60°-70°	22.6	0.5
70°-80°	12.6	0.3
80°-90°	4.5	0.1
90°-100°	175.7	3.5
100°-110°	582.3	11.7
110°-120°	578.0	11.6
120°-130°	470.8	9.4
130°-140°	382.6	7.7
140°-150°	297.1	6.0
150°-160°	214.1	4.3
160°-170°	131.1	2.6
170°-180°	44.3	0.9
0°-30°	1062.1	21.3
0°-40°	1639.5	32.9
0°-60°	2069.5	41.5
0°-90°	2109.1	42.3
90°-120°	1336.0	26.8
90°-150°	2486.4	49.9
90°-180°	2876.0	57.7
0°-180°	4985.0	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	1	3	4	4	1
95°	25	74	318	114	76	29
105°	102	145	583	1100	1028	107
115°	182	218	469	977	1142	180
125°	254	282	461	768	905	226
135°	304	335	457	659	743	235
145°	353	379	456	567	620	221
155°	403	417	459	506	525	186
165°	442	447	461	479	484	125
175°	463	463	464	466	466	44
180°	464	464	464	464	464	

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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	1.7	2.1	1.5	1.5
90°	0.0	0.9	2.9	3.8	3.8
92.5°	7.7	29.7	87.5	28.4	23.8
95°	25.0	73.9	318.3	113.6	76.0
97.5°	46.0	97.1	555.7	324.1	204.8
100°	60.6	109.5	643.4	552.6	366.4
102.5°	76.7	124.1	638.0	844.5	638.0
105°	101.9	145.2	582.8	1099.5	1028.0
107.5°	127.7	166.3	529.9	1125.4	1179.8
110°	142.3	180.9	503.0	1099.8	1209.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	157.7	195.5	486.8	1054.3	1194.4
115°	181.8	217.5	469.3	977.0	1142.5
117.5°	205.6	237.4	463.0	903.1	1076.7
120°	220.2	251.3	460.6	856.8	1025.1
122.5°	233.3	263.6	460.6	818.8	974.4
125°	253.9	282.1	460.6	767.7	904.9
127.5°	270.8	298.5	459.5	728.9	846.3
130°	280.8	310.0	458.7	706.3	811.7
132.5°	290.0	319.9	458.0	687.6	782.4
135°	303.9	334.9	456.8	658.7	743.4
137.5°	318.9	348.8	455.6	630.8	705.5
140°	328.9	358.0	454.9	612.2	680.9
142.5°	338.1	366.5	455.6	593.6	654.7
145°	352.9	379.3	455.8	566.7	620.3
147.5°	368.9	390.9	456.0	543.9	583.7
150°	378.9	398.6	456.8	530.7	564.5
152.5°	388.1	407.1	457.6	519.7	546.8
155°	402.9	417.0	458.7	506.3	525.1
157.5°	417.4	428.3	459.9	496.7	510.1
160°	425.1	434.5	460.6	489.7	500.1
162.5°	432.8	439.9	460.6	485.1	493.1
165°	442.4	447.1	460.6	479.0	483.7
167.5°	451.2	453.7	461.6	473.6	476.0
170°	455.8	456.8	461.6	471.2	472.2
172.5°	458.9	459.9	462.4	468.9	469.1
175°	462.6	462.6	463.5	466.4	465.5
177.5°	464.5	464.5	463.7	465.2	463.7
180°	464.5	464.5	464.5	464.5	464.5

(END OF REPORT)