

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: P559633

Luminaire Tested: **DL2-BB-M-050U-125D-930-UNV-STD-W-4**

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P559633  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-10, G3-2104-222-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: DL2-BB-M-050U-125D-930-UNV-STD-W-4  
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6666.5 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.18 / 1.17  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

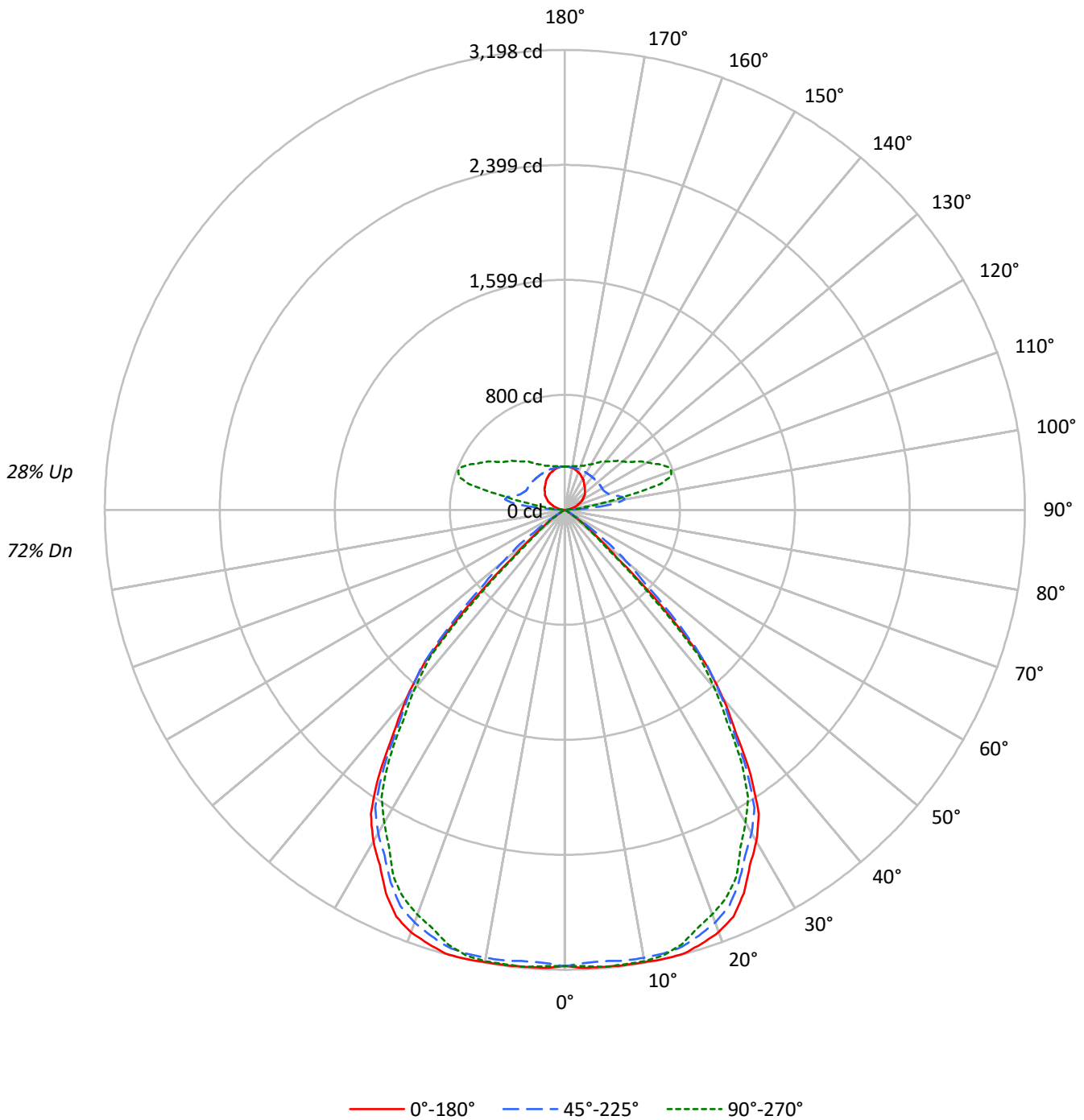
Input Watts (W): 64.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	72
1	105	102	99	96	100	97	95	92	88	86	84	80	78	77	72	71	70	66
2	99	93	88	84	94	89	84	81	81	78	75	74	71	69	67	65	64	60
3	92	84	78	74	87	81	76	71	74	70	67	68	65	62	62	60	58	55
4	86	77	70	65	82	74	68	64	68	63	60	63	59	56	58	55	53	50
5	80	70	64	58	76	68	62	57	63	58	54	58	54	51	54	50	48	45
6	75	65	58	53	71	62	56	51	58	53	49	54	49	46	50	46	44	42
7	70	59	52	48	67	57	51	46	53	48	44	50	45	42	46	43	40	38
8	66	55	48	43	63	53	47	42	50	44	40	46	42	39	43	40	37	35
9	62	51	44	39	59	49	43	39	46	41	37	43	39	36	40	37	34	32
10	58	47	41	36	56	46	40	36	43	38	34	40	36	33	38	34	31	30

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	51236	51236	51236
5°	51695	51059	51695
10°	52357	51854	52246
15°	53412	52595	52306
20°	53716	52465	51460
25°	52417	50965	50195
30°	49635	48384	46812
35°	44388	43349	42139
40°	36149	35624	34170
45°	22066	24998	19877
50°	7201	13991	6332
55°	2455	4937	2536
60°	187	1424	61
65°	38	73	0
70°	0	47	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.7	4.6
10°-20°	891.7	13.4
20°-30°	1317.9	19.8
30°-40°	1354.4	20.3
40°-50°	782.3	11.7
50°-60°	135.5	2.0
60°-70°	5.1	0.1
70°-80°	0.1	0.0
80°-90°	0.5	0.0
90°-100°	120.3	1.8
100°-110°	381.5	5.7
110°-120°	374.1	5.6
120°-130°	304.4	4.6
130°-140°	248.2	3.7
140°-150°	193.5	2.9
150°-160°	139.4	2.1
160°-170°	85.2	1.3
170°-180°	28.8	0.4
0°-30°	2513.3	37.7
0°-40°	3867.7	58.0
0°-60°	4785.5	71.8
0°-90°	4791.2	71.9
90°-120°	875.9	13.1
90°-150°	1622.1	24.3
90°-180°	1875.0	28.1
0°-180°	6666.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3173	3173	3173	3173	3173	
5°	3190	3180	3150	3196	3190	305
15°	3195	3219	3146	3152	3129	900
25°	2942	2968	2861	2828	2818	1345
35°	2252	2253	2199	2165	2138	1386
45°	966	1097	1095	1036	870	739
55°	87	101	175	100	90	98
65°	1	1	2	1	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	1	3	3	3	1
95°	16	49	218	81	52	19
105°	66	93	376	716	687	70
115°	119	141	304	631	743	117
125°	164	184	299	495	583	146
135°	198	218	297	426	480	153
145°	232	249	297	367	400	145
155°	264	273	298	328	341	122
165°	288	290	299	311	313	81
175°	301	300	301	303	302	29
180°	302	302	302	302	302	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3173.3	3173.3	3173.3	3173.3	3173.3
2.5°	3187.9	3178.9	3153.4	3182.4	3175.6
5°	3189.6	3180.2	3150.3	3196.2	3189.6
7.5°	3192.7	3186.9	3161.2	3197.2	3186.7
10°	3193.5	3194.4	3162.8	3194.2	3186.7
12.5°	3198.1	3207.2	3159.7	3184.9	3172.2
15°	3195.4	3218.8	3146.5	3151.7	3129.2
17.5°	3163.2	3196.9	3104.1	3081.4	3053.3
20°	3126.3	3160.1	3053.5	3023.1	2995.0
22.5°	3061.2	3097.9	2983.7	2950.3	2924.4
25°	2942.3	2968.5	2860.8	2828.0	2817.6
27.5°	2785.8	2795.2	2711.8	2668.5	2644.3
30°	2662.3	2660.5	2595.2	2545.5	2510.9
32.5°	2509.7	2519.1	2453.3	2406.7	2371.3
35°	2252.0	2252.9	2199.3	2165.1	2137.9
37.5°	1951.4	1946.7	1909.6	1863.6	1848.2
40°	1715.1	1721.7	1690.2	1638.0	1621.2
42.5°	1441.3	1484.6	1462.4	1401.0	1380.3
45°	966.4	1096.7	1094.8	1036.4	870.5
47.5°	494.5	657.6	755.7	591.9	397.1
50°	286.7	389.8	557.0	307.4	252.1
52.5°	181.6	230.7	395.9	199.8	167.8
55°	87.2	101.3	175.4	99.5	90.1
57.5°	31.8	47.4	77.8	48.4	34.1
60°	5.8	19.8	44.1	13.2	1.9
62.5°	1.9	5.5	25.7	3.4	1.2
65°	1.0	1.0	1.9	0.9	0.0
67.5°	0.0	0.9	1.0	0.0	0.0
70°	0.0	0.9	1.0	0.0	0.0
72.5°	0.0	0.2	0.2	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	0.2	0.6	0.6	0.6
90°	0.0	0.9	2.8	2.8	2.8
92.5°	5.3	21.1	67.4	22.5	15.8
95°	16.1	48.6	218.4	81.0	52.2
97.5°	30.0	63.1	370.0	231.2	141.9
100°	39.9	71.5	421.7	384.4	249.8
102.5°	50.5	80.6	412.6	564.5	432.1
105°	66.5	93.4	376.1	716.4	686.6
107.5°	82.4	107.3	341.3	732.2	772.3
110°	93.1	117.2	323.9	714.0	788.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	103.7	126.4	314.0	682.5	776.9
115°	118.7	141.0	303.9	631.2	742.7
117.5°	133.3	154.5	299.9	581.9	694.2
120°	142.5	162.9	299.2	551.4	660.0
122.5°	151.6	171.3	299.2	526.9	628.1
125°	164.3	183.8	299.2	494.9	583.1
127.5°	175.5	194.3	299.2	470.1	545.3
130°	182.3	201.8	299.2	455.5	523.3
132.5°	189.2	208.7	298.4	444.0	505.1
135°	198.5	218.0	297.3	425.7	479.6
137.5°	207.6	228.0	297.1	408.3	456.4
140°	213.7	234.1	296.3	396.1	439.7
142.5°	221.3	241.0	297.1	383.8	424.5
145°	231.7	249.4	297.3	367.3	399.8
147.5°	242.2	257.2	297.4	352.8	379.3
150°	249.8	261.8	298.2	344.3	365.6
152.5°	255.9	266.4	298.2	337.4	355.0
155°	264.0	273.3	298.2	327.9	340.9
157.5°	272.8	279.1	299.2	322.2	331.1
160°	277.3	282.9	299.2	318.3	325.8
162.5°	281.9	286.0	299.2	315.2	320.4
165°	287.8	290.5	299.2	310.6	313.4
167.5°	293.3	294.0	300.1	307.4	309.8
170°	296.3	296.3	300.1	305.8	306.8
172.5°	297.8	298.6	300.1	304.3	304.5
175°	301.1	300.1	301.1	302.9	302.0
177.5°	302.0	301.3	301.2	302.7	301.2
180°	302.0	302.0	302.0	302.0	302.0

(END OF REPORT)