

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: P559623

Luminaire Tested: **DL2-BB-M-025U-125D-940-UNV-STD-W-4**

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P559623  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-9, 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-025U-125D-940-UNV-STD-W-4  
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

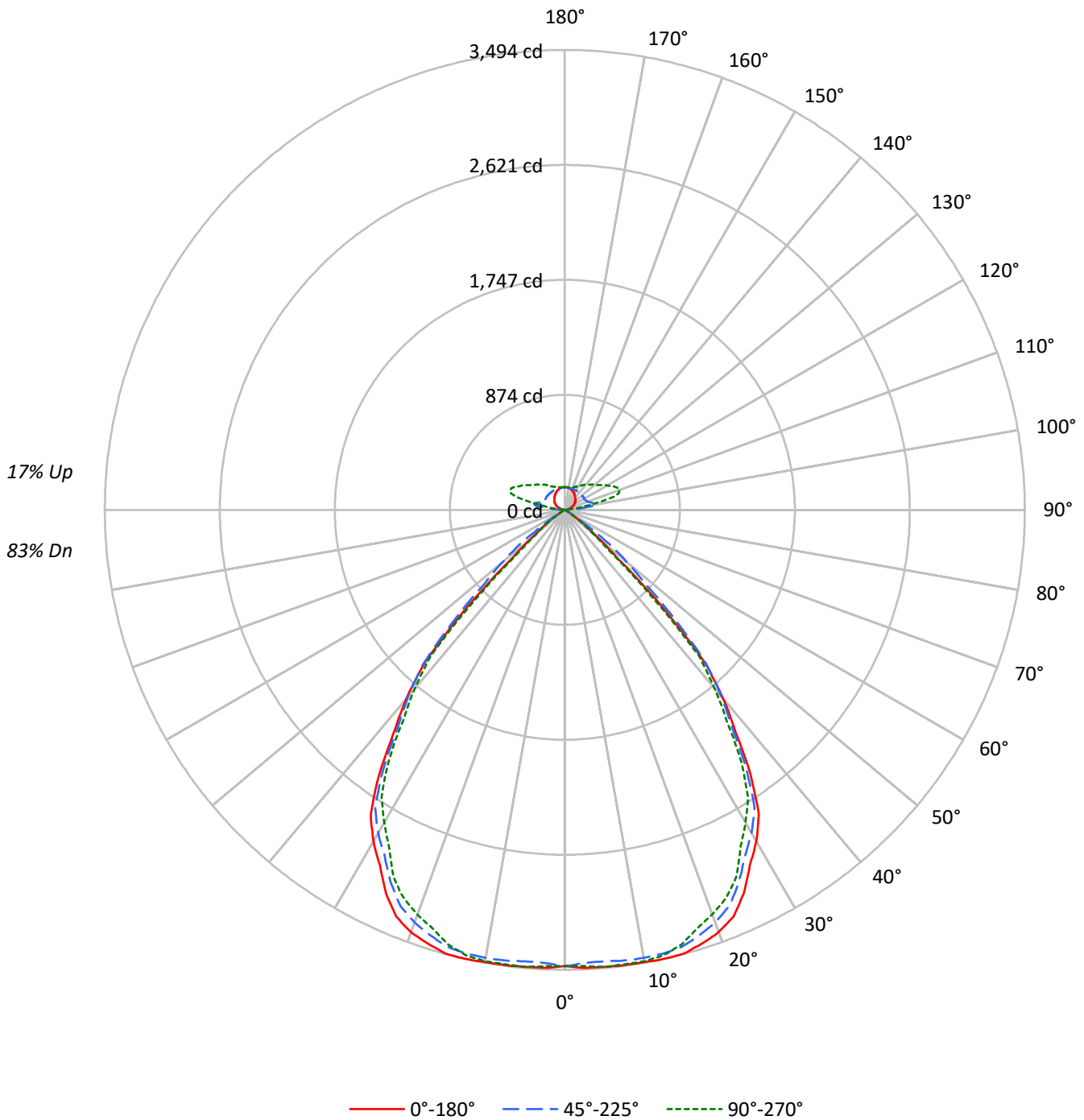
Lumens per Lamp: N/A  
Luminaire Lumens: 6297.4 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.18 / 1.17  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 57.2  
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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	108	105	102	100	104	101	99	97	94	92	91	88	86	85	82	81	80	77
2	102	96	91	87	98	93	89	85	87	83	81	81	79	76	76	74	72	70
3	95	88	82	77	92	85	80	76	80	76	72	75	72	69	71	68	66	63
4	89	80	74	69	86	78	72	68	74	69	65	70	66	62	66	63	60	58
5	83	74	67	62	80	72	65	61	68	63	59	64	60	57	61	58	55	53
6	78	68	61	56	75	66	60	55	63	57	53	60	55	52	57	53	50	48
7	73	63	56	51	71	61	55	50	58	53	49	55	51	47	53	49	46	44
8	69	58	51	46	66	57	50	46	54	48	45	52	47	43	49	45	42	40
9	65	54	47	42	63	53	46	42	50	45	41	48	43	40	46	42	39	37
10	61	50	43	39	59	49	43	39	47	41	38	45	40	37	43	39	36	34

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

	0°	45°	90°
0°	55979	55979	55979
5°	56483	55786	56483
10°	57204	56654	57084
15°	58357	57464	57150
20°	58690	57323	56225
25°	57270	55684	54843
30°	54231	52864	51145
35°	48498	47362	46042
40°	39496	38923	37334
45°	24110	27314	21717
50°	7867	15287	6920
55°	2683	5396	2773
60°	203	1556	68
65°	38	80	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°	331.8	5.3
10°-20°	974.3	15.5
20°-30°	1439.9	22.9
30°-40°	1479.8	23.5
40°-50°	854.8	13.6
50°-60°	148.1	2.4
60°-70°	5.5	0.1
70°-80°	0.1	0.0
80°-90°	0.5	0.0
90°-100°	69.3	1.1
100°-110°	215.5	3.4
110°-120°	210.9	3.3
120°-130°	172.1	2.7
130°-140°	140.8	2.2
140°-150°	109.9	1.7
150°-160°	79.3	1.3
160°-170°	48.5	0.8
170°-180°	16.3	0.3
0°-30°	2746.0	43.6
0°-40°	4225.8	67.1
0°-60°	5228.6	83.0
0°-90°	5234.8	83.1
90°-120°	495.7	7.9
90°-150°	918.5	14.6
90°-180°	1063.0	16.9
0°-180°	6297.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3467	3467	3467	3467	3467	
5°	3485	3475	3442	3492	3485	333
15°	3491	3517	3438	3444	3419	984
25°	3215	3243	3126	3090	3078	1470
35°	2460	2462	2403	2366	2336	1514
45°	1056	1198	1196	1132	951	807
55°	95	111	192	109	98	107
65°	1	1	2	1	0	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	1	3	3	3	0
95°	10	28	127	47	30	11
105°	38	53	212	405	387	40
115°	67	80	172	355	416	66
125°	94	104	170	280	328	83
135°	112	125	169	241	271	87
145°	131	142	169	208	227	82
155°	150	155	170	187	193	69
165°	165	166	171	176	179	46
175°	171	171	171	172	171	16
180°	171	171	171	171	171	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3467.1	3467.1	3467.1	3467.1	3467.1
2.5°	3483.1	3473.2	3445.4	3477.0	3469.7
5°	3485.0	3474.7	3442.0	3492.1	3485.0
7.5°	3488.3	3482.0	3453.9	3493.3	3481.8
10°	3489.1	3490.2	3455.6	3490.0	3481.8
12.5°	3494.2	3504.2	3452.3	3479.8	3465.9
15°	3491.2	3516.8	3437.8	3443.5	3419.0
17.5°	3456.0	3492.9	3391.5	3366.7	3336.0
20°	3415.8	3452.7	3336.2	3303.0	3272.3
22.5°	3344.6	3384.7	3260.0	3223.5	3195.2
25°	3214.7	3243.4	3125.7	3089.8	3078.5
27.5°	3043.8	3054.0	2962.9	2915.6	2889.1
30°	2908.8	2906.8	2835.5	2781.2	2743.3
32.5°	2742.1	2752.3	2680.5	2629.5	2590.8
35°	2460.5	2461.5	2402.9	2365.6	2335.9
37.5°	2132.0	2126.9	2086.4	2036.1	2019.3
40°	1873.9	1881.1	1846.7	1789.7	1771.3
42.5°	1574.8	1622.1	1597.8	1530.7	1508.2
45°	1055.9	1198.2	1196.2	1132.4	951.1
47.5°	540.3	718.5	825.6	646.7	433.9
50°	313.2	425.9	608.6	335.9	275.5
52.5°	198.4	252.1	432.6	218.3	183.3
55°	95.3	110.7	191.7	108.7	98.5
57.5°	34.8	51.8	85.1	52.9	37.3
60°	6.3	21.6	48.2	14.4	2.1
62.5°	2.1	6.0	28.1	3.7	1.3
65°	1.0	1.0	2.1	1.0	0.0
67.5°	0.0	1.0	1.0	0.0	0.0
70°	0.0	1.0	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	1.0	3.2	3.2	3.2
92.5°	3.4	11.8	40.1	13.2	10.7
95°	9.5	27.9	127.1	46.9	30.5
97.5°	17.2	36.3	210.5	131.0	82.6
100°	23.1	40.6	237.4	222.1	148.1
102.5°	29.0	45.6	232.4	317.2	249.0
105°	37.8	53.2	212.2	405.1	386.6
107.5°	46.6	61.0	192.9	411.8	432.2
110°	52.5	66.9	182.8	402.2	442.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	58.4	72.0	177.7	384.8	435.5
115°	67.2	79.6	172.3	355.4	416.0
117.5°	75.8	87.1	170.0	327.3	389.3
120°	80.9	92.2	169.1	311.2	370.8
122.5°	85.9	97.2	170.0	297.7	352.3
125°	93.5	103.8	170.2	279.5	327.7
127.5°	99.6	110.1	170.2	265.9	306.9
130°	102.9	114.2	170.2	258.2	295.2
132.5°	107.1	118.4	169.3	251.4	285.9
135°	112.4	124.7	169.1	241.2	271.0
137.5°	118.5	129.8	169.1	231.1	258.2
140°	121.9	133.2	169.1	224.3	249.0
142.5°	126.1	136.5	169.1	217.5	239.7
145°	131.3	141.6	169.1	208.4	226.9
147.5°	137.6	146.4	170.2	199.9	214.5
150°	141.8	149.0	170.2	195.6	206.9
152.5°	145.2	151.5	170.2	191.4	201.1
155°	150.2	155.4	170.2	187.1	193.3
157.5°	155.3	159.2	170.2	183.3	187.2
160°	158.6	161.7	170.2	180.8	183.8
162.5°	161.1	163.4	170.2	179.1	181.3
165°	164.9	166.0	171.2	176.5	178.6
167.5°	167.2	167.4	170.2	175.0	176.1
170°	168.1	169.1	170.2	173.4	174.4
172.5°	169.8	170.0	171.0	172.5	172.7
175°	171.2	171.2	171.2	172.3	171.2
177.5°	171.2	171.2	171.2	171.2	171.2
180°	171.2	171.2	171.2	171.2	171.2

(END OF REPORT)