

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: P559635

Luminaire Tested: **DL2-BB-M-050U-125D-940-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559635
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-940-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

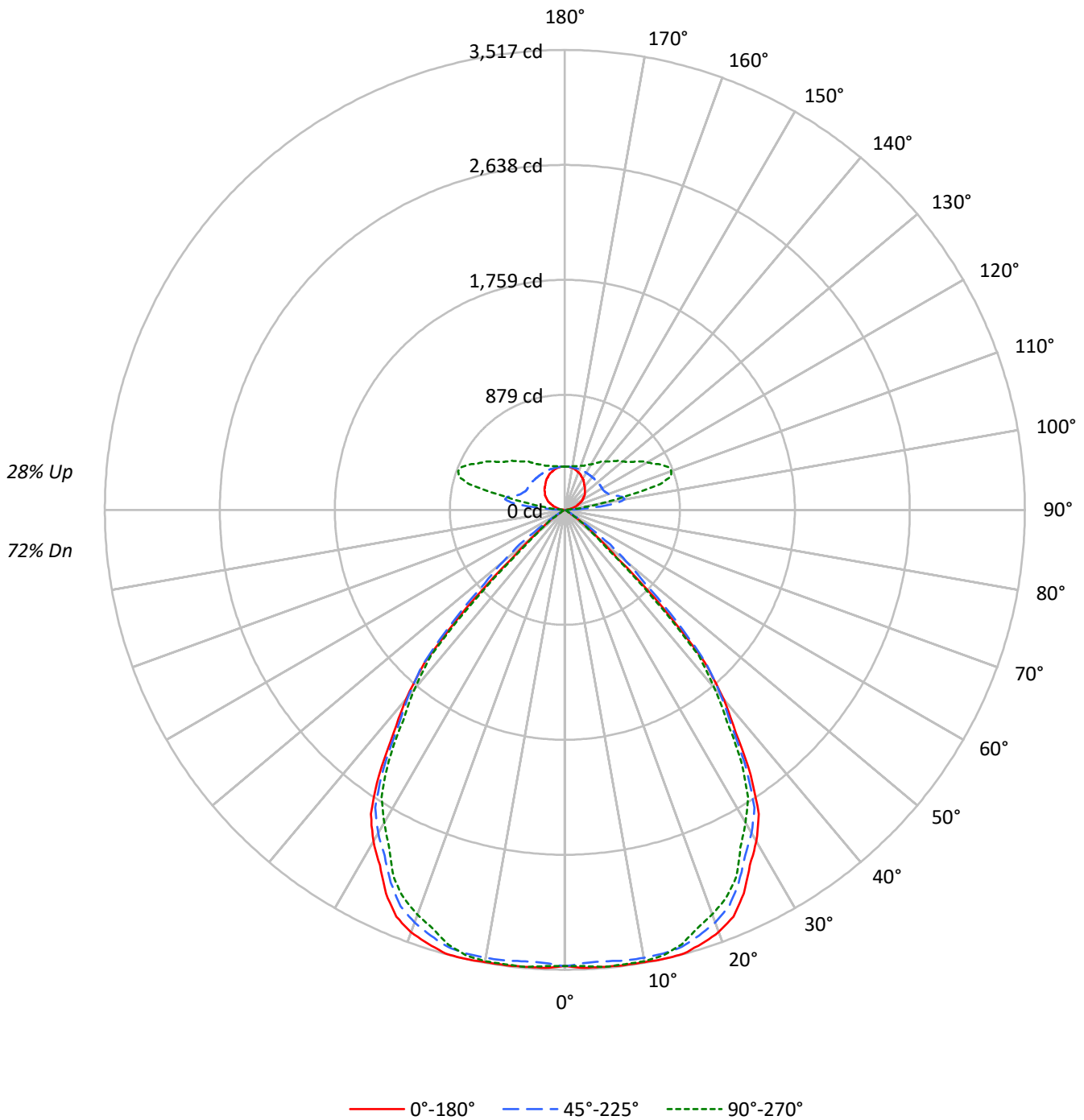
Lumens per Lamp: N/A
Luminaire Lumens: 7331.7 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.18 / 1.17
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	50	30	10	0	
RCR																						
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	76	76	76	72	
1	105	102	99	96	100	97	95	92	88	86	84	80	78	77	72	71	70	70	70	70	66	
2	99	93	88	84	94	89	84	81	81	78	75	74	71	69	67	65	64	64	64	64	60	
3	92	84	78	74	87	81	76	71	74	70	67	68	65	62	62	60	58	58	58	58	55	
4	86	77	70	65	82	74	68	64	68	63	60	63	59	56	58	55	53	53	53	53	50	
5	80	70	64	58	76	68	62	57	63	58	54	58	54	51	54	50	48	48	48	48	45	
6	75	65	58	53	71	62	56	51	58	53	49	54	49	46	50	46	44	44	44	44	42	
7	70	59	52	48	67	57	51	46	53	48	44	50	45	42	46	43	40	40	40	40	38	
8	66	55	48	43	63	53	47	42	50	44	40	46	42	39	43	40	37	37	37	37	35	
9	62	51	44	39	59	49	43	39	46	41	37	43	39	36	40	37	34	34	34	34	32	
10	58	47	41	36	56	46	40	36	43	38	34	40	36	33	38	34	31	31	31	31	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	56349	56349	56349
5°	56854	56154	56854
10°	57581	57028	57459
15°	58741	57842	57526
20°	59077	57701	56594
25°	57647	56049	55205
30°	54588	53213	51482
35°	48817	47674	46343
40°	39757	39178	37578
45°	24268	27494	21861
50°	7920	15388	6965
55°	2700	5430	2790
60°	203	1566	68
65°	42	80	0
70°	0	52	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.0	4.6
10°-20°	980.7	13.4
20°-30°	1449.4	19.8
30°-40°	1489.5	20.3
40°-50°	860.4	11.7
50°-60°	149.1	2.0
60°-70°	5.6	0.1
70°-80°	0.1	0.0
80°-90°	0.5	0.0
90°-100°	132.3	1.8
100°-110°	419.6	5.7
110°-120°	411.4	5.6
120°-130°	334.8	4.6
130°-140°	273.0	3.7
140°-150°	212.8	2.9
150°-160°	153.3	2.1
160°-170°	93.7	1.3
170°-180°	31.6	0.4
0°-30°	2764.0	37.7
0°-40°	4253.6	58.0
0°-60°	5263.0	71.8
0°-90°	5269.2	71.9
90°-120°	963.3	13.1
90°-150°	1783.9	24.3
90°-180°	2063.0	28.1
0°-180°	7331.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3490	3490	3490	3490	3490	
5°	3508	3498	3465	3515	3508	335
15°	3514	3540	3460	3466	3442	990
25°	3236	3265	3146	3110	3099	1479
35°	2477	2478	2419	2381	2351	1524
45°	1063	1206	1204	1140	957	812
55°	96	111	193	109	99	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	1
95°	18	54	240	89	57	21
105°	73	103	414	788	755	77
115°	131	155	334	694	817	129
125°	181	202	329	544	641	161
135°	218	240	327	468	528	169
145°	255	274	327	404	440	160
155°	290	301	328	361	375	134
165°	316	320	329	342	345	89
175°	331	330	331	333	332	31
180°	332	332	332	332	332	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3490.0	3490.0	3490.0	3490.0	3490.0
2.5°	3506.0	3496.1	3468.0	3499.9	3492.5
5°	3507.9	3497.6	3464.7	3515.1	3507.9
7.5°	3511.3	3504.9	3476.7	3516.3	3504.7
10°	3512.1	3513.1	3478.4	3513.0	3504.7
12.5°	3517.2	3527.3	3475.0	3502.7	3488.7
15°	3514.2	3540.0	3460.4	3466.2	3441.5
17.5°	3478.8	3515.9	3413.8	3388.9	3357.9
20°	3438.3	3475.4	3358.2	3324.8	3293.8
22.5°	3366.6	3407.0	3281.4	3244.7	3216.2
25°	3235.9	3264.7	3146.2	3110.1	3098.8
27.5°	3063.8	3074.1	2982.4	2934.8	2908.2
30°	2928.0	2925.9	2854.2	2799.5	2761.4
32.5°	2760.1	2770.4	2698.1	2646.8	2607.9
35°	2476.7	2477.7	2418.7	2381.1	2351.2
37.5°	2146.1	2140.9	2100.1	2049.5	2032.6
40°	1886.3	1893.5	1858.8	1801.5	1782.9
42.5°	1585.1	1632.8	1608.3	1540.8	1518.1
45°	1062.8	1206.1	1204.1	1139.8	957.4
47.5°	543.8	723.2	831.1	650.9	436.7
50°	315.3	428.7	612.6	338.1	277.3
52.5°	199.7	253.7	435.5	219.8	184.5
55°	95.9	111.4	192.9	109.4	99.1
57.5°	35.0	52.1	85.6	53.2	37.5
60°	6.3	21.8	48.5	14.5	2.1
62.5°	2.1	6.0	28.3	3.7	1.3
65°	1.1	1.1	2.1	1.0	0.0
67.5°	0.0	1.0	1.1	0.0	0.0
70°	0.0	1.0	1.1	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	3.1	3.1	3.1
92.5°	5.8	23.2	74.2	24.7	17.3
95°	17.8	53.5	240.2	89.1	57.4
97.5°	33.0	69.4	406.9	254.3	156.0
100°	43.9	78.6	463.7	422.8	274.7
102.5°	55.6	88.7	453.7	620.9	475.2
105°	73.1	102.7	413.6	787.8	755.2
107.5°	90.7	118.0	375.4	805.2	849.4
110°	102.4	128.9	356.2	785.2	866.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	114.1	139.0	345.3	750.6	854.4
115°	130.6	155.1	334.2	694.2	816.8
117.5°	146.6	169.9	329.8	639.9	763.5
120°	156.7	179.1	329.0	606.4	725.9
122.5°	166.7	188.3	329.0	579.5	690.8
125°	180.7	202.1	329.0	544.3	641.3
127.5°	193.0	213.6	329.0	517.0	599.7
130°	200.5	222.0	329.0	501.0	575.5
132.5°	208.1	229.5	328.2	488.3	555.5
135°	218.3	239.7	326.9	468.2	527.5
137.5°	228.3	250.8	326.7	449.1	502.0
140°	235.0	257.5	325.9	435.6	483.6
142.5°	243.4	265.0	326.7	422.1	466.9
145°	254.9	274.3	326.9	404.0	439.7
147.5°	266.3	282.9	327.1	388.0	417.2
150°	274.7	288.0	328.0	378.6	402.1
152.5°	281.4	293.0	328.0	371.0	390.4
155°	290.4	300.6	328.0	360.7	375.0
157.5°	300.0	306.9	329.0	354.3	364.1
160°	305.0	311.1	329.0	350.1	358.3
162.5°	310.0	314.5	329.0	346.7	352.4
165°	316.5	319.5	329.0	341.6	344.7
167.5°	322.5	323.4	330.1	338.1	340.7
170°	325.9	325.9	330.1	336.3	337.4
172.5°	327.5	328.4	330.1	334.7	334.9
175°	331.1	330.1	331.1	333.2	332.1
177.5°	332.1	331.3	331.3	332.9	331.3
180°	332.1	332.1	332.1	332.1	332.1

(END OF REPORT)