

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: P559634

Luminaire Tested: **DL2-BB-M-050U-125D-935-UNV-STD-W-4**

Issue Date: 3/5/2020

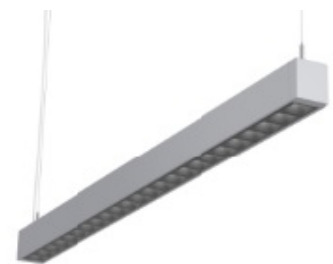
Test Information

Test Method: LM-79-08
Report Number: P559634
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-935-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

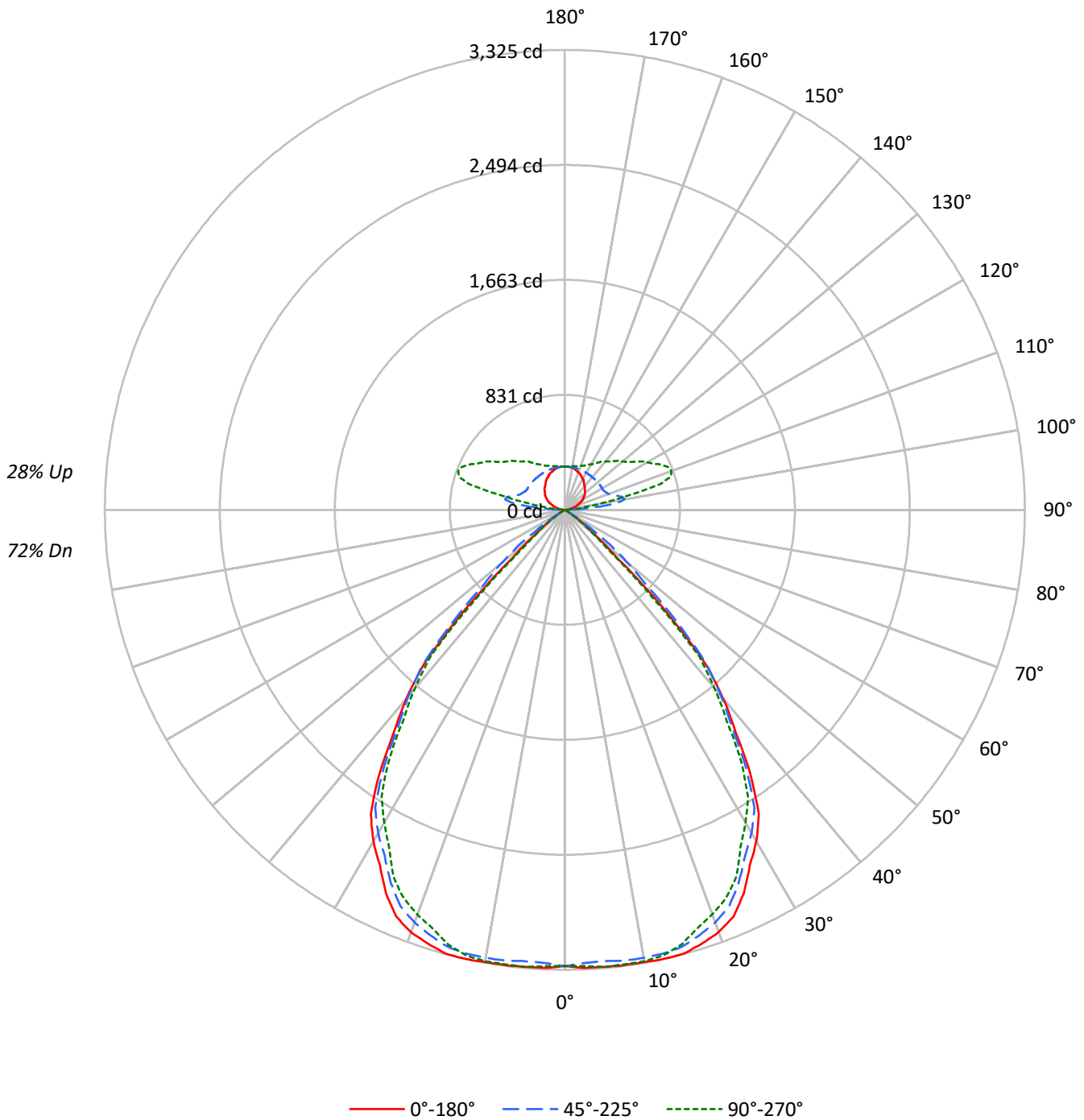
Lumens per Lamp: N/A
Luminaire Lumens: 6931.3 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.18 / 1.17
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

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°	53272	53272	53272
5°	53749	53086	53749
10°	54436	53913	54321
15°	55534	54684	54384
20°	55850	54550	53505
25°	54498	52989	52191
30°	51607	50306	48671
35°	46152	45070	43812
40°	37586	37038	35527
45°	22943	25992	20667
50°	7485	14546	6586
55°	2553	5134	2638
60°	194	1482	65
65°	38	76	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°	315.7	4.6
10°-20°	927.1	13.4
20°-30°	1370.2	19.8
30°-40°	1408.2	20.3
40°-50°	813.4	11.7
50°-60°	140.9	2.0
60°-70°	5.3	0.1
70°-80°	0.1	0.0
80°-90°	0.5	0.0
90°-100°	125.1	1.8
100°-110°	396.7	5.7
110°-120°	389.0	5.6
120°-130°	316.5	4.6
130°-140°	258.1	3.7
140°-150°	201.2	2.9
150°-160°	145.0	2.1
160°-170°	88.6	1.3
170°-180°	29.9	0.4
0°-30°	2613.1	37.7
0°-40°	4021.3	58.0
0°-60°	4975.6	71.8
0°-90°	4981.5	71.9
90°-120°	910.7	13.1
90°-150°	1686.5	24.3
90°-180°	1950.0	28.1
0°-180°	6931.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3299	3299	3299	3299	3299	
5°	3316	3307	3275	3323	3316	317
15°	3322	3347	3272	3277	3254	936
25°	3059	3086	2974	2940	2930	1399
35°	2342	2342	2287	2251	2223	1441
45°	1005	1140	1138	1078	905	768
55°	91	105	182	103	94	102
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°	17	51	227	84	54	19
105°	69	97	391	745	714	73
115°	123	147	316	656	772	122
125°	171	191	311	515	606	152
135°	206	227	309	443	499	159
145°	241	259	309	382	416	151
155°	274	284	310	341	354	127
165°	299	302	311	323	326	84
175°	313	312	313	315	314	30
180°	314	314	314	314	314	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3299.4	3299.4	3299.4	3299.4	3299.4
2.5°	3314.5	3305.2	3278.6	3308.8	3301.8
5°	3316.3	3306.6	3275.4	3323.1	3316.3
7.5°	3319.5	3313.5	3286.8	3324.2	3313.3
10°	3320.3	3321.3	3288.4	3321.1	3313.3
12.5°	3325.1	3334.6	3285.2	3311.4	3298.2
15°	3322.3	3346.7	3271.5	3276.9	3253.5
17.5°	3288.8	3323.9	3227.4	3203.8	3174.6
20°	3250.5	3285.6	3174.8	3143.2	3114.0
22.5°	3182.7	3220.9	3102.2	3067.5	3040.6
25°	3059.1	3086.4	2974.4	2940.3	2929.6
27.5°	2896.5	2906.2	2819.5	2774.5	2749.3
30°	2768.1	2766.1	2698.3	2646.6	2610.6
32.5°	2609.4	2619.1	2550.8	2502.3	2465.5
35°	2341.5	2342.4	2286.6	2251.1	2222.8
37.5°	2028.9	2024.0	1985.4	1937.6	1921.6
40°	1783.3	1790.1	1757.3	1703.1	1685.6
42.5°	1498.6	1543.6	1520.5	1456.6	1435.2
45°	1004.8	1140.2	1138.3	1077.6	905.1
47.5°	514.1	683.7	785.7	615.4	412.9
50°	298.0	405.2	579.1	319.7	262.2
52.5°	188.8	239.9	411.7	207.8	174.4
55°	90.7	105.3	182.4	103.4	93.7
57.5°	33.1	49.3	80.9	50.3	35.5
60°	6.0	20.6	45.9	13.7	2.0
62.5°	2.0	5.7	26.7	3.5	1.2
65°	1.0	1.0	2.0	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	3.0	3.0	3.0
92.5°	5.5	21.9	70.1	23.3	16.4
95°	16.8	50.6	227.1	84.2	54.3
97.5°	31.2	65.6	384.7	240.4	147.5
100°	41.5	74.3	438.4	399.7	259.7
102.5°	52.5	83.8	428.9	587.0	449.3
105°	69.1	97.1	391.0	744.8	713.9
107.5°	85.7	111.6	354.9	761.3	803.0
110°	96.8	121.9	336.7	742.3	819.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.8	131.4	326.4	709.6	807.7
115°	123.4	146.6	316.0	656.3	772.2
117.5°	138.6	160.6	311.8	605.0	721.8
120°	148.1	169.4	311.0	573.3	686.3
122.5°	157.6	178.1	311.0	547.8	653.1
125°	170.8	191.1	311.0	514.6	606.3
127.5°	182.5	202.0	311.0	488.8	567.0
130°	189.6	209.9	311.0	473.6	544.1
132.5°	196.7	217.0	310.3	461.6	525.1
135°	206.4	226.6	309.1	442.7	498.7
137.5°	215.9	237.1	308.9	424.5	474.6
140°	222.2	243.4	308.1	411.8	457.2
142.5°	230.1	250.5	308.9	399.1	441.4
145°	240.9	259.3	309.1	381.9	415.7
147.5°	251.8	267.4	309.3	366.8	394.4
150°	259.7	272.2	310.1	358.0	380.2
152.5°	266.0	277.0	310.1	350.8	369.1
155°	274.5	284.2	310.1	341.0	354.5
157.5°	283.6	290.2	311.0	335.0	344.2
160°	288.3	294.1	311.0	331.0	338.7
162.5°	293.1	297.3	311.0	327.8	333.2
165°	299.2	302.1	311.0	323.0	325.9
167.5°	304.9	305.7	312.0	319.6	322.1
170°	308.1	308.1	312.0	318.0	318.9
172.5°	309.7	310.4	312.0	316.4	316.6
175°	313.0	312.1	313.0	315.0	314.0
177.5°	314.0	313.2	313.2	314.8	313.2
180°	314.0	314.0	314.0	314.0	314.0

(END OF REPORT)