

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: P559670

Luminaire Tested: **DL2-BB-M-100U-125D-935-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559670
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-12, 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-100U-125D-935-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

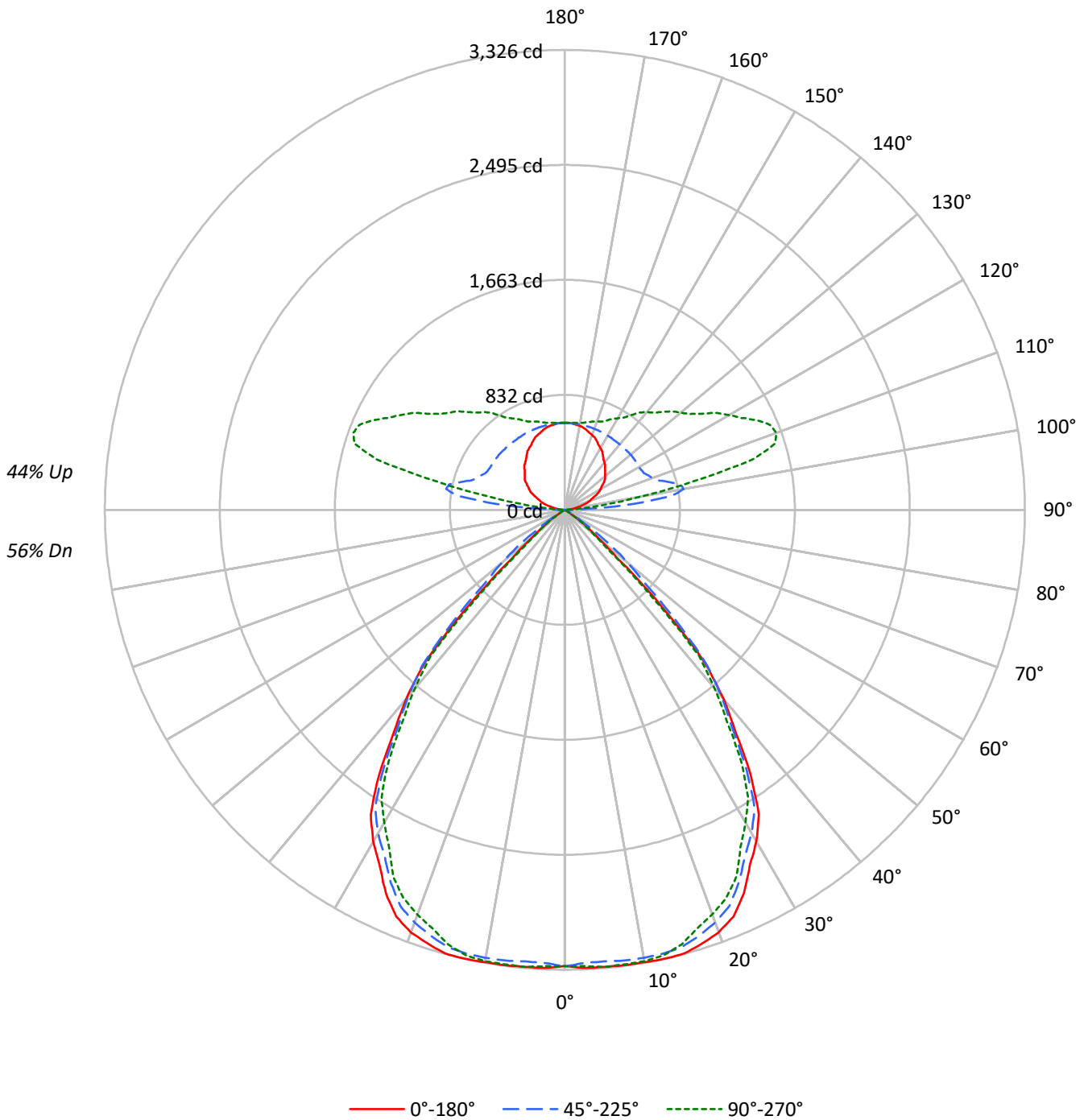
Lumens per Lamp: N/A
Luminaire Lumens: 8898.2 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.18 / 1.17
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 82.4
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	101	98	95	92	94	91	89	86	79	77	76	68	67	66	58	57	56	52
2	94	88	83	79	88	83	78	75	72	69	66	63	61	59	54	52	51	47
3	88	80	74	69	82	75	70	65	66	62	59	58	55	52	50	48	46	43
4	81	72	66	60	76	68	62	58	60	56	52	53	50	47	46	44	42	39
5	76	66	59	54	71	62	56	51	55	51	47	49	45	43	43	40	38	35
6	70	60	53	48	66	57	51	46	51	46	42	45	41	39	40	37	35	32
7	66	55	48	43	62	52	46	41	47	42	38	42	38	35	37	34	32	30
8	62	51	44	39	58	48	42	37	43	38	35	39	35	32	35	32	29	27
9	58	47	40	35	54	44	38	34	40	35	32	36	32	29	32	29	27	25
10	54	43	37	32	51	41	35	31	37	32	29	34	30	27	30	27	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	53294	53294	53294
5°	53772	53109	53772
10°	54459	53936	54344
15°	55557	54708	54407
20°	55874	54572	53527
25°	54523	53012	52212
30°	51630	50328	48692
35°	46172	45090	43832
40°	37601	37055	35542
45°	22952	26003	20676
50°	7490	14554	6589
55°	2553	5137	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°	315.9	3.5
10°-20°	927.5	10.4
20°-30°	1370.8	15.4
30°-40°	1408.8	15.8
40°-50°	813.7	9.1
50°-60°	141.0	1.6
60°-70°	5.3	0.1
70°-80°	0.1	0.0
80°-90°	1.5	0.0
90°-100°	262.6	3.0
100°-110°	794.4	8.9
110°-120°	775.4	8.7
120°-130°	633.7	7.1
130°-140°	517.2	5.8
140°-150°	402.6	4.5
150°-160°	290.3	3.3
160°-170°	177.7	2.0
170°-180°	60.0	0.7
0°-30°	2614.2	29.4
0°-40°	4023.0	45.2
0°-60°	4977.7	55.9
0°-90°	4984.6	56.0
90°-120°	1832.4	20.6
90°-150°	3386.0	38.1
90°-180°	3914.0	44.0
0°-180°	8898.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3301	3301	3301	3301	3301	
5°	3318	3308	3277	3325	3318	317
15°	3324	3348	3273	3278	3255	936
25°	3060	3088	2976	2942	2931	1399
35°	2342	2343	2288	2252	2224	1441
45°	1005	1141	1139	1078	906	768
55°	91	105	182	104	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	2	12	7	6	2
95°	33	103	496	183	116	39
105°	138	194	780	1481	1408	145
115°	246	293	631	1305	1533	243
125°	344	381	622	1031	1213	305
135°	412	455	618	889	1000	319
145°	481	516	618	765	836	301
155°	548	566	622	686	712	252
165°	599	606	625	649	656	169
175°	627	627	628	633	631	59
180°	629	629	629	629	629	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3300.8	3300.8	3300.8	3300.8	3300.8
2.5°	3315.9	3306.6	3280.0	3310.2	3303.2
5°	3317.7	3308.0	3276.8	3324.6	3317.7
7.5°	3320.9	3314.9	3288.2	3325.7	3314.7
10°	3321.7	3322.7	3289.8	3322.5	3314.7
12.5°	3326.5	3336.1	3286.6	3312.8	3299.6
15°	3323.7	3348.1	3272.9	3278.3	3254.9
17.5°	3290.2	3325.3	3228.8	3205.2	3175.9
20°	3251.9	3287.0	3176.1	3144.6	3115.3
22.5°	3184.1	3222.3	3103.5	3068.8	3041.9
25°	3060.5	3087.8	2975.7	2941.5	2930.8
27.5°	2897.7	2907.5	2820.7	2775.7	2750.5
30°	2769.3	2767.3	2699.5	2647.8	2611.7
32.5°	2610.5	2620.3	2551.9	2503.4	2466.5
35°	2342.5	2343.4	2287.6	2252.1	2223.8
37.5°	2029.7	2024.9	1986.3	1938.4	1922.4
40°	1784.0	1790.8	1758.1	1703.8	1686.3
42.5°	1499.2	1544.3	1521.2	1457.2	1435.8
45°	1005.2	1140.7	1138.8	1078.1	905.5
47.5°	514.4	684.0	786.0	615.7	413.0
50°	298.2	405.4	579.4	319.8	262.3
52.5°	188.9	240.0	411.8	207.9	174.5
55°	90.7	105.4	182.5	103.5	93.7
57.5°	33.1	49.3	81.0	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	0.4	2.4	1.4	1.2
90°	0.0	1.9	11.8	6.9	5.9
92.5°	11.1	44.7	160.3	53.2	38.3
95°	32.6	103.0	495.6	183.1	115.5
97.5°	63.0	131.1	781.1	516.9	314.7
100°	81.9	148.5	872.7	843.7	566.7
102.5°	103.3	167.6	853.8	1183.4	943.4
105°	138.2	194.2	779.9	1481.2	1407.8
107.5°	171.4	224.9	708.9	1510.7	1595.6
110°	193.5	244.7	673.3	1473.5	1628.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	214.8	264.4	652.0	1411.3	1606.7
115°	245.8	293.1	630.9	1305.4	1533.2
117.5°	276.6	321.4	623.4	1206.2	1439.4
120°	297.2	339.6	621.0	1148.3	1372.3
122.5°	316.1	356.3	621.0	1097.4	1304.4
125°	343.6	381.2	622.0	1030.9	1213.3
127.5°	365.9	404.9	621.0	980.7	1136.3
130°	380.1	420.6	621.0	952.0	1092.9
132.5°	392.7	434.0	620.2	925.7	1055.8
135°	411.7	455.1	618.0	889.1	1000.1
137.5°	432.8	474.1	618.0	850.0	952.9
140°	446.2	486.8	618.0	824.6	922.1
142.5°	459.7	498.7	617.2	801.4	886.6
145°	480.8	516.5	618.0	764.8	836.2
147.5°	501.9	532.2	619.2	734.6	789.4
150°	515.4	543.3	620.0	717.8	764.1
152.5°	528.0	552.9	620.8	703.4	741.2
155°	547.9	566.3	622.0	685.8	711.8
157.5°	565.3	580.2	623.2	672.7	690.9
160°	575.6	588.1	623.9	664.7	678.2
162.5°	585.8	595.3	624.7	657.6	668.8
165°	599.3	606.0	624.9	648.8	656.5
167.5°	610.7	614.2	626.1	642.0	645.3
170°	617.0	619.0	626.9	638.8	639.7
172.5°	621.0	622.1	626.9	635.6	635.8
175°	626.9	626.9	627.9	632.8	630.9
177.5°	629.7	628.9	628.1	630.4	628.9
180°	628.9	628.9	628.9	628.9	628.9

(END OF REPORT)