

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: P559669

Luminaire Tested: **DL2-BB-M-100U-125D-930-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559669
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-930-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

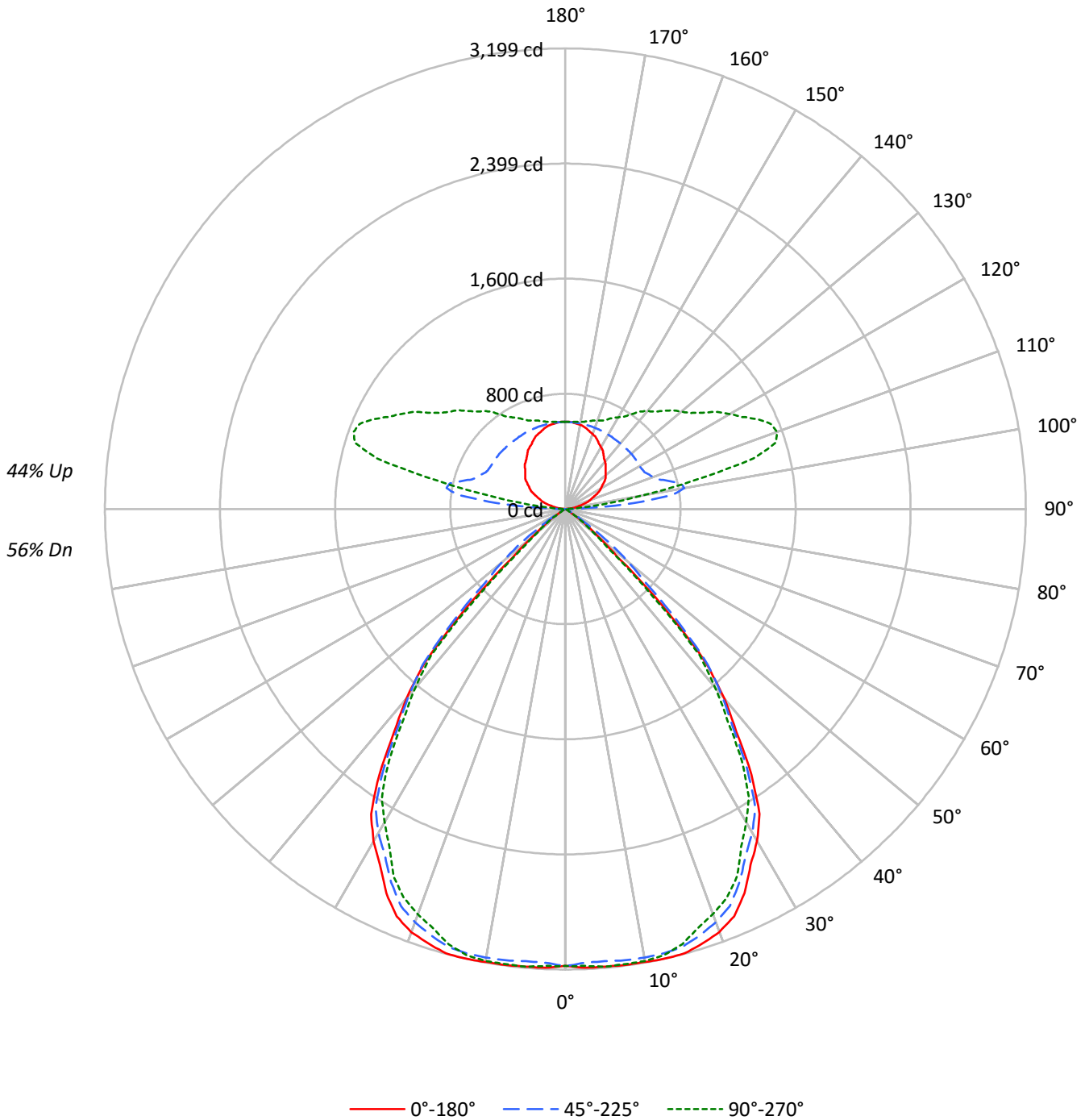
Lumens per Lamp: N/A
Luminaire Lumens: 8558.2 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.18 / 1.17
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

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°	51258	51258	51258
5°	51718	51081	51718
10°	52378	51875	52269
15°	53434	52617	52329
20°	53740	52488	51483
25°	52438	50986	50219
30°	49657	48404	46831
35°	44408	43367	42157
40°	36166	35639	34185
45°	22076	25010	19886
50°	7204	13996	6335
55°	2457	4940	2539
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°	303.8	3.5
10°-20°	892.1	10.4
20°-30°	1318.4	15.4
30°-40°	1355.0	15.8
40°-50°	782.6	9.1
50°-60°	135.6	1.6
60°-70°	5.1	0.1
70°-80°	0.1	0.0
80°-90°	1.4	0.0
90°-100°	252.6	3.0
100°-110°	764.0	8.9
110°-120°	745.8	8.7
120°-130°	609.5	7.1
130°-140°	497.5	5.8
140°-150°	387.3	4.5
150°-160°	279.2	3.3
160°-170°	170.9	2.0
170°-180°	57.7	0.7
0°-30°	2514.3	29.4
0°-40°	3869.3	45.2
0°-60°	4787.6	55.9
0°-90°	4794.1	56.0
90°-120°	1762.4	20.6
90°-150°	3256.6	38.1
90°-180°	3764.0	44.0
0°-180°	8558.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3175	3175	3175	3175	3175	
5°	3191	3182	3152	3198	3191	305
15°	3197	3220	3148	3153	3131	901
25°	2944	2970	2862	2829	2819	1346
35°	2253	2254	2200	2166	2139	1386
45°	967	1097	1095	1037	871	739
55°	87	101	176	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	2	11	7	6	1
95°	31	99	477	176	111	37
105°	133	187	750	1425	1354	140
115°	236	282	607	1256	1475	234
125°	330	367	598	992	1167	294
135°	396	438	594	855	962	307
145°	462	497	594	736	804	290
155°	527	545	598	660	685	243
165°	576	583	601	624	631	162
175°	603	603	604	609	607	57
180°	605	605	605	605	605	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3174.7	3174.7	3174.7	3174.7	3174.7
2.5°	3189.3	3180.3	3154.7	3183.7	3177.0
5°	3191.0	3181.6	3151.7	3197.6	3191.0
7.5°	3194.1	3188.2	3162.6	3198.6	3188.1
10°	3194.8	3195.8	3164.1	3195.6	3188.1
12.5°	3199.4	3208.6	3161.1	3186.3	3173.5
15°	3196.7	3220.2	3147.8	3153.1	3130.6
17.5°	3164.5	3198.3	3105.4	3082.7	3054.6
20°	3127.7	3161.4	3054.8	3024.4	2996.3
22.5°	3062.5	3099.2	2985.0	2951.6	2925.7
25°	2943.5	2969.8	2862.0	2829.2	2818.9
27.5°	2787.0	2796.4	2713.0	2669.6	2645.4
30°	2663.5	2661.6	2596.3	2546.6	2511.9
32.5°	2510.8	2520.2	2454.4	2407.7	2372.3
35°	2253.0	2253.9	2200.2	2166.0	2138.8
37.5°	1952.2	1947.5	1910.4	1864.4	1849.0
40°	1715.9	1722.4	1690.9	1638.8	1621.9
42.5°	1441.9	1485.3	1463.0	1401.6	1380.9
45°	966.8	1097.1	1095.3	1036.9	870.9
47.5°	494.7	657.9	756.0	592.1	397.3
50°	286.8	389.9	557.2	307.6	252.2
52.5°	181.7	230.8	396.1	199.9	167.8
55°	87.3	101.3	175.5	99.5	90.2
57.5°	31.8	47.4	77.9	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	0.4	2.3	1.3	1.1
90°	0.0	1.9	11.4	6.6	5.7
92.5°	10.6	42.9	154.2	51.1	36.8
95°	31.3	99.1	476.7	176.1	111.1
97.5°	60.6	126.1	751.3	497.1	302.7
100°	78.8	142.9	839.4	811.5	545.0
102.5°	99.3	161.2	821.2	1138.2	907.4
105°	132.9	186.8	750.1	1424.6	1354.1
107.5°	164.8	216.3	681.8	1453.0	1534.7
110°	186.1	235.3	647.6	1417.2	1565.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	206.6	254.3	627.1	1357.4	1545.3
115°	236.4	281.9	606.8	1255.5	1474.6
117.5°	266.1	309.1	599.5	1160.1	1384.4
120°	285.8	326.7	597.3	1104.5	1319.9
122.5°	304.0	342.7	597.3	1055.5	1254.5
125°	330.4	366.7	598.2	991.5	1167.0
127.5°	351.9	389.4	597.3	943.3	1092.9
130°	365.6	404.6	597.3	915.6	1051.1
132.5°	377.7	417.5	596.5	890.3	1015.4
135°	396.0	437.7	594.4	855.1	961.9
137.5°	416.3	456.0	594.4	817.5	916.5
140°	429.2	468.2	594.4	793.1	886.9
142.5°	442.1	479.6	593.7	770.8	852.7
145°	462.4	496.8	594.4	735.6	804.3
147.5°	482.7	511.9	595.6	706.5	759.3
150°	495.7	522.6	596.3	690.4	734.9
152.5°	507.8	531.8	597.1	676.5	712.9
155°	527.0	544.6	598.2	659.6	684.6
157.5°	543.7	558.0	599.4	647.0	664.5
160°	553.6	565.7	600.1	639.3	652.3
162.5°	563.5	572.6	600.9	632.5	643.2
165°	576.4	582.9	601.1	624.0	631.4
167.5°	587.4	590.7	602.2	617.5	620.6
170°	593.5	595.3	603.0	614.4	615.3
172.5°	597.3	598.4	603.0	611.3	611.5
175°	603.0	603.0	603.9	608.6	606.8
177.5°	605.6	604.9	604.1	606.3	604.9
180°	604.9	604.9	604.9	604.9	604.9

(END OF REPORT)