

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: P559695

Luminaire Tested: **DL2-BB-M-150U-125D-940-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559695
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-14, 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-150U-125D-940-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11515.9 lumens
Efficiency: N/A
Efficacy: 108.7 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

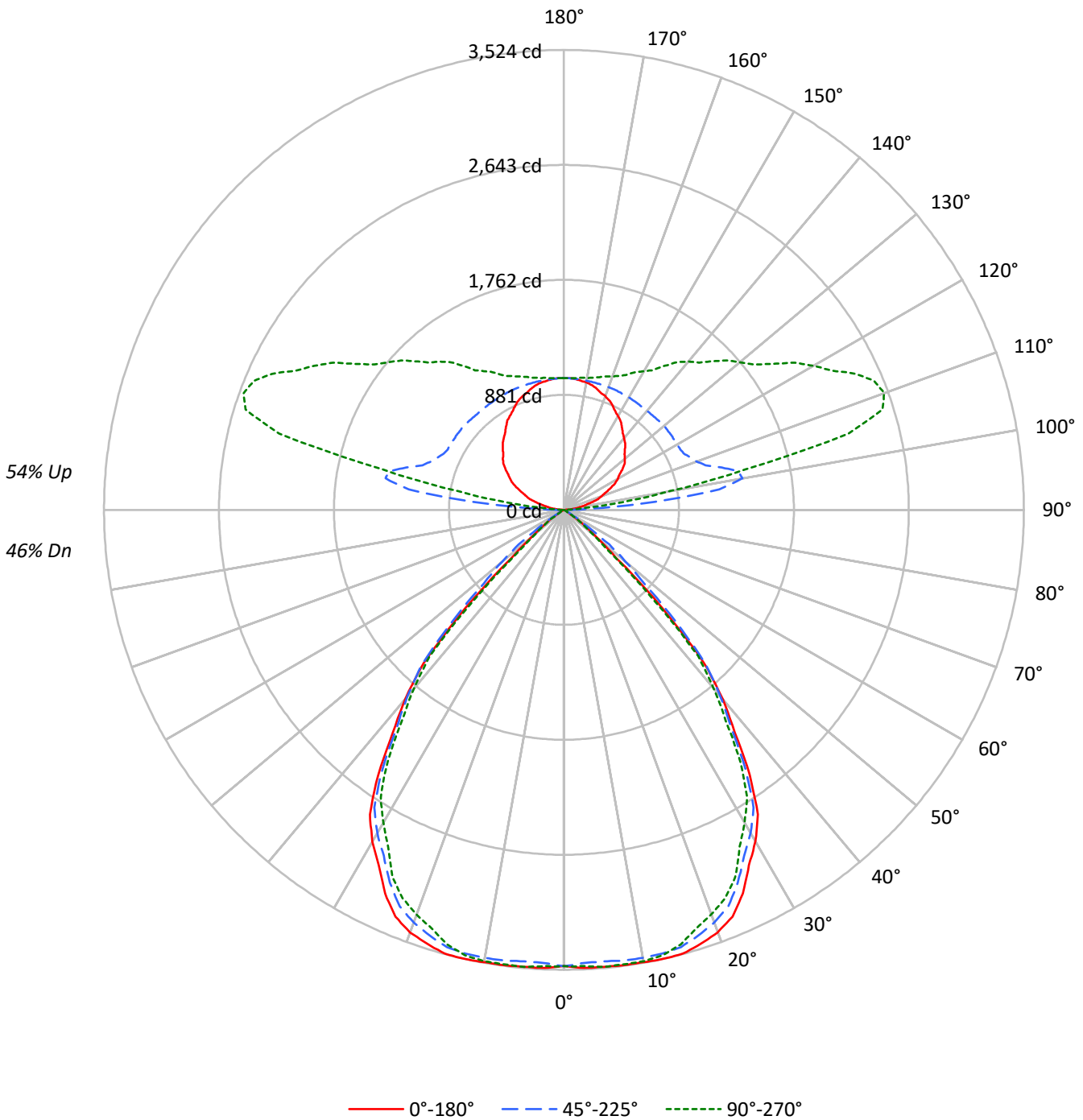
Input Watts (W): 105.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46				46
1	99	95	92	89	91	88	85	82	74	72	70	61	60	59	49	48	48	42				42
2	91	85	80	76	84	79	75	71	67	64	61	56	54	52	45	44	43	38				38
3	85	77	71	66	78	71	66	62	61	57	54	51	48	46	42	40	39	35				35
4	78	69	62	57	72	64	59	54	55	51	48	47	44	41	39	37	35	32				32
5	73	63	56	50	67	58	52	48	51	46	42	43	40	37	36	34	32	29				29
6	68	57	50	45	62	53	47	43	46	42	38	40	36	34	34	31	29	27				27
7	63	52	45	40	58	49	43	38	43	38	34	37	33	30	31	29	27	24				24
8	59	48	41	36	54	45	39	34	39	34	31	34	30	28	29	26	25	22				22
9	55	44	37	33	51	41	35	31	36	32	28	32	28	25	27	24	23	21				21
10	52	41	34	30	48	38	32	28	34	29	26	29	26	23	25	23	21	19				19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	56465	56465	56465
5°	56973	56269	56973
10°	57700	57146	57579
15°	58863	57962	57645
20°	59199	57819	56713
25°	57767	56167	55319
30°	54702	53323	51589
35°	48917	47772	46440
40°	39840	39260	37656
45°	24318	27551	21907
50°	7935	15420	6980
55°	2705	5441	2795
60°	203	1569	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°	334.7	2.9
10°-20°	982.7	8.5
20°-30°	1452.4	12.6
30°-40°	1492.6	13.0
40°-50°	862.2	7.5
50°-60°	149.4	1.3
60°-70°	5.6	0.0
70°-80°	0.1	0.0
80°-90°	1.4	0.0
90°-100°	384.9	3.3
100°-110°	1260.4	10.9
110°-120°	1246.1	10.8
120°-130°	1018.6	8.8
130°-140°	831.2	7.2
140°-150°	646.9	5.6
150°-160°	465.8	4.0
160°-170°	285.0	2.5
170°-180°	96.3	0.8
0°-30°	2769.8	24.1
0°-40°	4262.4	37.0
0°-60°	5273.9	45.8
0°-90°	5281.0	45.9
90°-120°	2891.4	25.1
90°-150°	5388.2	46.8
90°-180°	6235.0	54.1
0°-180°	11515.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3497	3497	3497	3497	3497	
5°	3515	3505	3472	3522	3515	336
15°	3522	3547	3468	3473	3449	992
25°	3243	3272	3153	3117	3105	1483
35°	2482	2483	2424	2386	2356	1527
45°	1065	1209	1207	1142	959	814
55°	96	112	193	110	99	108
65°	1	1	2	1	0	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	3	8	7	8	3
95°	54	156	700	249	162	61
105°	219	312	1251	2377	2258	231
115°	394	472	1016	2100	2466	390
125°	549	612	1002	1656	1946	489
135°	661	731	994	1429	1610	512
145°	774	830	992	1229	1347	485
155°	882	911	998	1099	1142	406
165°	962	972	1002	1041	1052	271
175°	1006	1006	1007	1014	1012	95
180°	1010	1010	1010	1010	1010	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3497.2	3497.2	3497.2	3497.2	3497.2
2.5°	3513.3	3503.3	3475.2	3507.2	3499.7
5°	3515.2	3504.8	3471.8	3522.4	3515.2
7.5°	3518.5	3512.1	3483.9	3523.6	3512.0
10°	3519.4	3520.4	3485.6	3520.3	3512.0
12.5°	3524.5	3534.6	3482.2	3510.0	3495.9
15°	3521.5	3547.3	3467.6	3473.4	3448.6
17.5°	3486.0	3523.2	3420.9	3395.9	3364.9
20°	3445.4	3482.6	3365.1	3331.7	3300.7
22.5°	3373.6	3414.1	3288.2	3251.4	3222.9
25°	3242.6	3271.5	3152.8	3116.6	3105.2
27.5°	3070.1	3080.5	2988.6	2940.8	2914.2
30°	2934.1	2932.0	2860.1	2805.3	2767.1
32.5°	2765.9	2776.2	2703.7	2652.3	2613.3
35°	2481.8	2482.9	2423.7	2386.1	2356.1
37.5°	2150.5	2145.3	2104.4	2053.8	2036.8
40°	1890.2	1897.4	1862.7	1805.2	1786.6
42.5°	1588.4	1636.2	1611.7	1544.0	1521.2
45°	1065.0	1208.6	1206.6	1142.2	959.4
47.5°	545.0	724.7	832.8	652.3	437.6
50°	315.9	429.5	613.9	338.8	277.9
52.5°	200.1	254.2	436.4	220.2	184.9
55°	96.1	111.6	193.3	109.6	99.3
57.5°	35.1	52.2	85.8	53.3	37.6
60°	6.3	21.8	48.6	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°	0.2	0.6	1.7	1.5	1.7
90°	1.0	3.1	8.3	7.3	8.3
92.5°	17.7	64.3	197.7	64.3	51.5
95°	54.0	156.5	699.8	249.3	162.0
97.5°	98.0	206.4	1200.6	726.3	450.2
100°	128.7	232.3	1389.2	1240.5	822.3
102.5°	163.6	264.7	1368.4	1827.9	1417.0
105°	219.1	312.5	1251.1	2377.0	2258.2
107.5°	273.7	359.4	1136.7	2428.3	2558.9
110°	309.4	392.6	1081.9	2368.6	2611.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	343.5	424.3	1048.6	2264.6	2575.5
115°	394.5	471.7	1016.4	2100.4	2465.8
117.5°	444.2	516.2	1004.2	1939.0	2310.1
120°	476.6	544.6	1000.9	1844.9	2206.3
122.5°	505.6	572.0	1000.9	1763.7	2099.1
125°	549.2	612.2	1001.9	1656.4	1945.7
127.5°	586.2	650.4	1000.7	1577.2	1829.0
130°	609.5	674.4	999.8	1529.3	1756.7
132.5°	630.2	696.8	997.3	1488.1	1694.4
135°	661.4	731.4	993.6	1428.6	1610.3
137.5°	694.2	763.6	991.3	1366.5	1530.8
140°	717.4	784.4	990.5	1327.3	1482.6
142.5°	740.7	803.6	990.5	1285.4	1426.1
145°	773.5	830.3	991.5	1228.9	1346.6
147.5°	808.0	855.3	993.0	1179.6	1268.5
150°	829.6	871.2	994.6	1151.1	1226.2
152.5°	851.2	887.9	995.5	1127.5	1189.6
155°	881.5	910.9	997.8	1099.4	1142.1
157.5°	908.7	930.0	1000.0	1077.4	1108.2
160°	926.1	943.4	1000.9	1064.8	1089.1
162.5°	941.1	955.1	1000.9	1054.6	1072.5
165°	962.5	971.6	1001.9	1040.6	1051.7
167.5°	980.5	985.0	1003.2	1029.7	1035.8
170°	990.5	992.5	1004.0	1023.8	1025.8
172.5°	998.0	999.2	1006.5	1019.6	1020.0
175°	1006.1	1006.1	1007.1	1014.3	1012.3
177.5°	1010.2	1009.4	1008.6	1013.5	1010.2
180°	1010.2	1010.2	1010.2	1010.2	1010.2

(END OF REPORT)