

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: P559660

Luminaire Tested: **DL2-BB-M-100U-050D-930-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559660
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-12, G3-2104-222-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DL2-BB-M-100U-050D-930-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

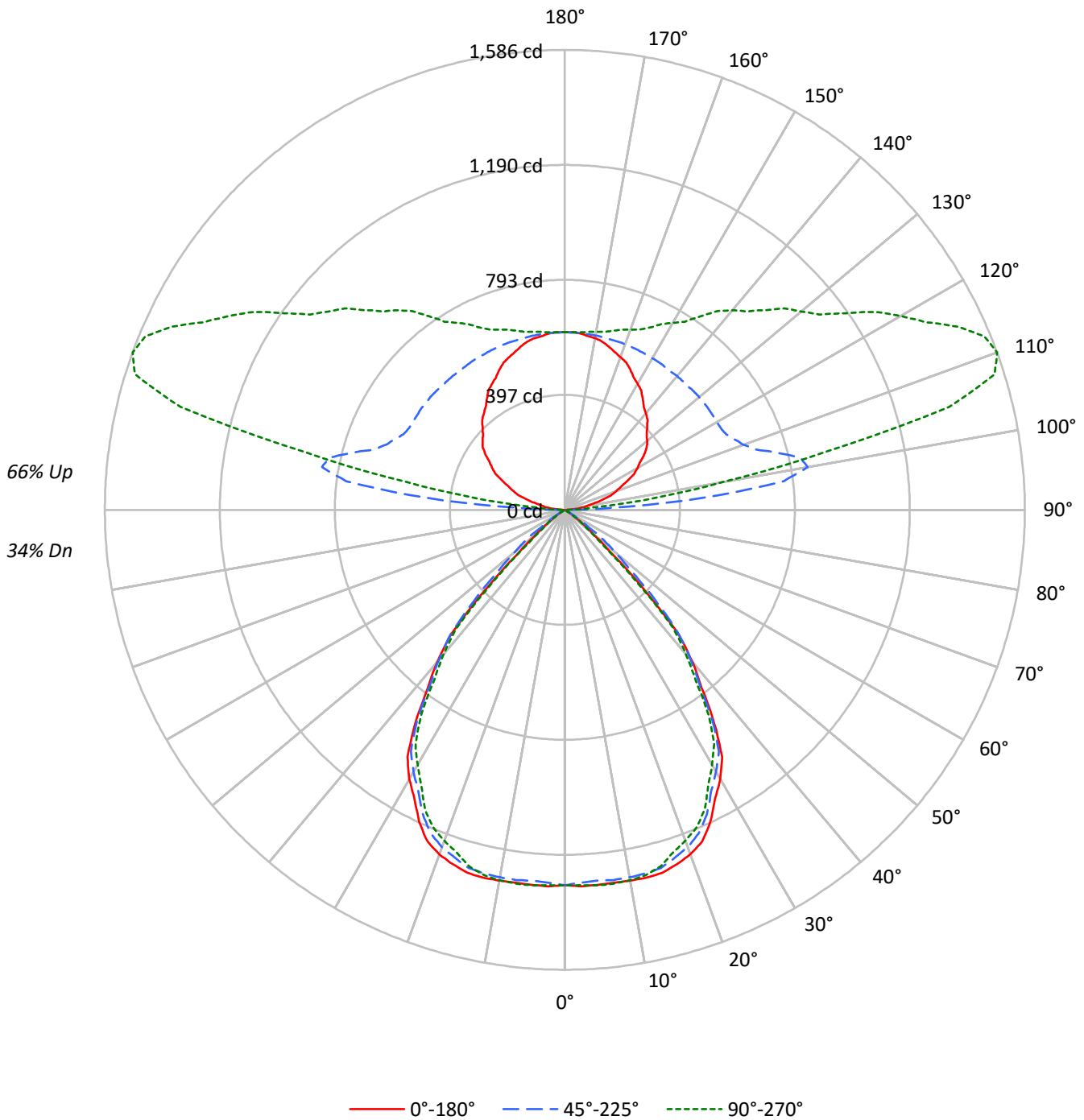
Lumens per Lamp: N/A
Luminaire Lumens: 5745.3 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 50.7
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



TEST NUMBER: P559660
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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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	95	92	88	85	86	83	80	78	67	65	63	52	51	50	38	38	37	31
2	88	82	76	72	80	74	70	66	60	57	55	47	46	44	35	34	34	28
3	81	73	67	62	73	67	61	57	54	51	48	43	41	39	33	31	30	26
4	75	66	59	53	68	60	54	50	49	45	42	39	37	35	30	29	27	23
5	69	59	52	47	63	54	48	43	45	40	37	36	33	31	28	26	25	21
6	64	54	46	41	58	49	43	38	41	36	33	33	30	28	26	24	23	19
7	60	49	42	37	54	45	39	34	37	33	30	31	27	25	24	22	21	18
8	56	44	37	33	50	41	35	31	34	30	27	28	25	23	22	20	19	16
9	52	41	34	29	47	38	32	28	32	27	24	26	23	21	21	19	17	15
10	49	38	31	27	44	35	29	25	29	25	22	24	21	19	19	17	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20898	20898	20898
5°	21039	20806	21071
10°	21282	21094	21267
15°	21667	21377	21280
20°	21727	21263	20866
25°	21155	20640	20314
30°	19986	19447	18927
35°	17716	17507	17014
40°	14461	14259	13692
45°	8526	10063	7932
50°	2876	5609	2562
55°	974	2004	1030
60°	94	591	32
65°	0	38	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	2.2
10°-20°	362.0	6.3
20°-30°	532.7	9.3
30°-40°	544.3	9.5
40°-50°	312.9	5.4
50°-60°	54.7	1.0
60°-70°	2.0	0.0
70°-80°	0.0	0.0
80°-90°	1.4	0.0
90°-100°	255.8	4.5
100°-110°	773.7	13.5
110°-120°	755.2	13.1
120°-130°	617.2	10.7
130°-140°	503.8	8.8
140°-150°	392.2	6.8
150°-160°	282.7	4.9
160°-170°	173.1	3.0
170°-180°	58.4	1.0
0°-30°	1018.4	17.7
0°-40°	1562.7	27.2
0°-60°	1930.3	33.6
0°-90°	1933.7	33.7
90°-120°	1784.7	31.1
90°-150°	3297.8	57.4
90°-180°	3812.0	66.3
0°-180°	5745.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1298	1295	1284	1302	1300	124
15°	1296	1308	1279	1280	1273	365
25°	1188	1198	1159	1146	1140	543
35°	899	904	888	874	863	555
45°	373	434	441	418	347	292
55°	35	41	71	40	37	39
65°	0	0	1	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	2	12	7	6	1
95°	32	100	483	178	112	38
105°	135	189	760	1443	1371	141
115°	239	286	614	1271	1493	237
125°	335	371	606	1004	1182	297
135°	401	443	602	866	974	310
145°	468	503	602	745	814	293
155°	534	552	606	668	693	246
165°	584	590	609	632	639	164
175°	611	611	612	616	614	58
180°	612	612	612	612	612	



TEST NUMBER: P559660

CATALOG NUMBER: DL2-BB-M-100U-050D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1294.3	1294.3	1294.3	1294.3	1294.3
2.5°	1299.7	1296.7	1286.6	1298.1	1295.1
5°	1298.1	1295.3	1283.7	1302.0	1300.1
7.5°	1297.4	1295.1	1287.4	1303.3	1299.5
10°	1298.1	1298.1	1286.6	1300.9	1297.2
12.5°	1299.7	1303.4	1284.3	1295.5	1290.3
15°	1296.2	1307.5	1278.9	1279.7	1273.1
17.5°	1282.2	1297.4	1258.3	1249.0	1239.1
20°	1264.5	1280.5	1237.5	1222.9	1214.4
22.5°	1237.5	1252.8	1207.5	1195.2	1185.9
25°	1187.5	1197.8	1158.6	1146.0	1140.3
27.5°	1122.0	1127.3	1093.2	1080.1	1070.7
30°	1072.0	1072.0	1043.1	1028.4	1015.2
32.5°	1009.6	1006.6	987.7	970.7	958.3
35°	898.8	903.5	888.2	873.5	863.2
37.5°	776.2	780.7	765.0	748.3	741.2
40°	686.1	689.9	676.5	659.0	649.6
42.5°	575.3	595.6	583.3	564.2	551.8
45°	373.4	434.5	440.7	418.0	347.4
47.5°	194.6	258.6	305.6	233.4	163.6
50°	114.5	155.9	223.3	127.4	102.0
52.5°	73.7	91.8	157.0	81.5	68.9
55°	34.6	41.2	71.2	40.3	36.6
57.5°	12.9	19.3	32.1	19.5	14.0
60°	2.9	8.5	18.3	5.7	1.0
62.5°	0.6	2.5	10.6	1.1	0.2
65°	0.0	0.0	1.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	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	1.2
90°	0.0	1.9	11.5	6.7	5.8
92.5°	10.8	43.5	156.2	51.8	37.3
95°	31.7	100.4	482.7	178.3	112.5
97.5°	61.3	127.7	760.8	503.4	306.5
100°	79.8	144.7	850.0	821.8	551.9
102.5°	100.6	163.2	831.5	1152.6	918.8
105°	134.6	189.1	759.6	1442.6	1371.2
107.5°	166.9	219.0	690.4	1471.3	1554.0
110°	188.5	238.3	655.8	1435.2	1585.6



TEST NUMBER: P559660

CATALOG NUMBER: DL2-BB-M-100U-050D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	209.2	257.6	635.0	1374.5	1564.8
115°	239.4	285.5	614.4	1271.4	1493.3
117.5°	269.4	313.0	607.1	1174.8	1401.9
120°	289.4	330.8	604.8	1118.4	1336.5
122.5°	307.9	347.0	604.8	1068.8	1270.4
125°	334.6	371.3	605.8	1004.0	1181.7
127.5°	356.3	394.3	604.8	955.2	1106.7
130°	370.2	409.7	604.8	927.2	1064.4
132.5°	382.5	422.7	604.0	901.5	1028.3
135°	401.0	443.3	601.9	865.9	974.0
137.5°	421.5	461.8	601.9	827.9	928.1
140°	434.6	474.1	601.9	803.1	898.1
142.5°	447.7	485.7	601.2	780.5	863.5
145°	468.3	503.1	601.9	744.9	814.4
147.5°	488.8	518.4	603.1	715.4	768.8
150°	501.9	529.2	603.8	699.1	744.2
152.5°	514.2	538.5	604.6	685.1	721.9
155°	533.7	551.5	605.8	667.9	693.3
157.5°	550.6	565.1	606.9	655.2	672.9
160°	560.6	572.8	607.7	647.4	660.6
162.5°	570.6	579.8	608.5	640.4	651.3
165°	583.7	590.2	608.7	631.9	639.4
167.5°	594.8	598.2	609.8	625.3	628.5
170°	601.0	602.8	610.6	622.1	623.1
172.5°	604.8	605.9	610.6	619.0	619.2
175°	610.6	610.6	611.5	616.3	614.4
177.5°	613.3	612.5	611.7	614.0	612.5
180°	612.5	612.5	612.5	612.5	612.5

(END OF REPORT)