

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: P559644

Luminaire Tested: **DL2-BB-M-075U-100D-940-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559644
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-11, G3-2104-222-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DL2-BB-M-075U-100D-940-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

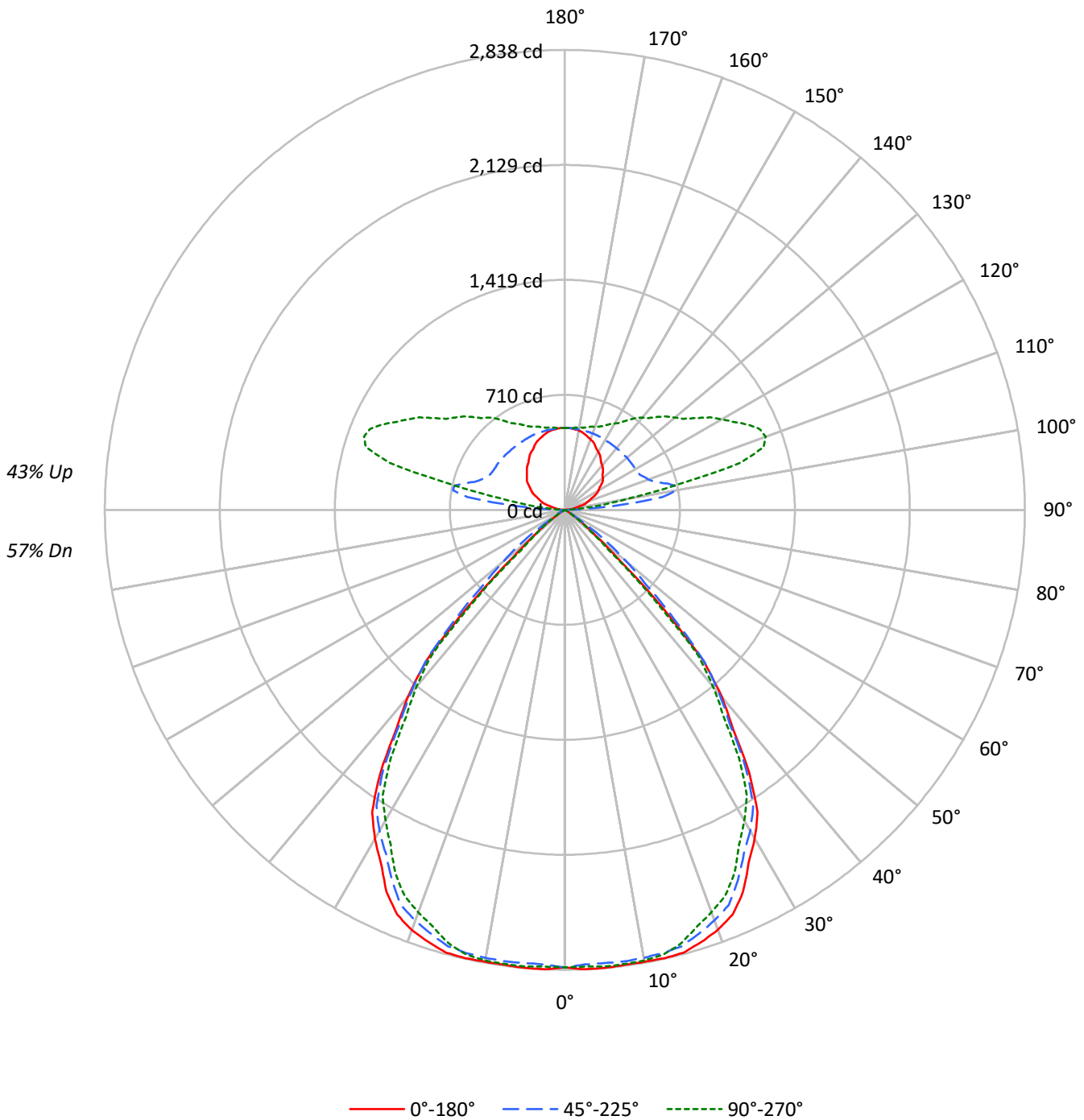
Lumens per Lamp: N/A
Luminaire Lumens: 7358.5 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 61.4
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	75	75	75	63	63	63	57
1	102	98	95	92	95	92	89	87	80	78	76	69	68	67	59	58	58	53
2	95	89	84	79	88	83	79	75	73	70	67	64	61	60	55	54	52	48
3	88	80	74	69	82	75	70	66	67	63	60	59	56	53	51	49	47	44
4	82	73	66	61	76	69	63	58	61	57	53	54	51	48	47	45	43	40
5	76	66	59	54	71	63	56	52	56	51	48	50	46	43	44	41	39	36
6	71	60	53	48	66	57	51	46	51	46	43	46	42	39	41	38	36	33
7	66	55	48	43	62	53	46	42	47	42	39	43	39	36	38	35	33	30
8	62	51	44	39	58	48	42	38	44	39	35	39	36	33	35	32	30	28
9	58	47	40	36	55	45	39	35	41	36	32	37	33	30	33	30	28	26
10	55	44	37	33	51	42	36	32	38	33	30	34	30	28	31	28	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	45585	45585	45585
5°	45981	45485	45861
10°	46427	46011	46306
15°	47281	46591	46308
20°	47402	46347	45402
25°	46340	44963	44078
30°	43684	42638	41277
35°	39135	38447	36904
40°	31748	31213	29988
45°	19322	21907	17342
50°	6164	12381	5634
55°	2145	4495	2204
60°	171	1298	36
65°	0	80	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°	269.8	3.7
10°-20°	789.0	10.7
20°-30°	1163.0	15.8
30°-40°	1191.0	16.2
40°-50°	686.3	9.3
50°-60°	120.2	1.6
60°-70°	4.6	0.1
70°-80°	0.0	0.0
80°-90°	0.6	0.0
90°-100°	191.4	2.6
100°-110°	634.6	8.6
110°-120°	629.9	8.6
120°-130°	513.0	7.0
130°-140°	417.0	5.7
140°-150°	323.8	4.4
150°-160°	233.3	3.2
160°-170°	142.9	1.9
170°-180°	48.3	0.7
0°-30°	2221.8	30.2
0°-40°	3412.7	46.4
0°-60°	4219.2	57.3
0°-90°	4224.4	57.4
90°-120°	1456.0	19.8
90°-150°	2709.8	36.8
90°-180°	3134.0	42.6
0°-180°	7358.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2823	2823	2823	2823	2823	
5°	2837	2831	2806	2840	2830	270
15°	2829	2851	2787	2787	2770	797
25°	2601	2621	2524	2501	2474	1187
35°	1986	1974	1951	1903	1872	1218
45°	846	947	959	912	760	648
55°	76	92	160	87	78	85
65°	0	1	2	1	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	1	3	4	4	1
95°	27	80	347	124	83	31
105°	111	158	635	1198	1120	117
115°	198	237	512	1065	1245	196
125°	277	307	502	837	986	246
135°	331	365	498	718	810	256
145°	385	413	497	618	676	241
155°	439	454	500	552	572	202
165°	482	487	502	522	527	136
175°	504	504	505	508	507	48
180°	506	506	506	506	506	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2823.3	2823.3	2823.3	2823.3	2823.3
2.5°	2837.7	2830.2	2808.1	2830.7	2820.8
5°	2837.0	2830.8	2806.4	2840.0	2829.6
7.5°	2831.8	2830.3	2811.5	2837.8	2826.0
10°	2831.8	2836.9	2806.4	2833.7	2824.4
12.5°	2833.5	2845.2	2801.3	2822.6	2809.1
15°	2828.6	2851.3	2787.3	2787.0	2770.4
17.5°	2796.9	2823.7	2743.1	2721.2	2699.1
20°	2758.8	2789.8	2697.4	2666.2	2642.4
22.5°	2703.8	2734.0	2639.9	2604.4	2580.6
25°	2601.2	2620.8	2523.9	2501.1	2474.2
27.5°	2455.6	2467.2	2391.9	2352.4	2328.2
30°	2343.1	2351.3	2287.0	2244.0	2214.0
32.5°	2212.7	2209.4	2162.6	2118.8	2090.4
35°	1985.5	1974.1	1950.6	1903.4	1872.3
37.5°	1706.0	1704.0	1680.7	1639.7	1607.2
40°	1506.3	1504.3	1480.9	1444.5	1422.8
42.5°	1264.3	1303.6	1276.1	1231.4	1218.0
45°	846.2	946.6	959.4	911.6	759.5
47.5°	436.7	570.7	668.1	520.4	360.5
50°	245.4	344.7	492.9	279.1	224.3
52.5°	159.9	207.9	344.0	178.1	150.6
55°	76.2	91.7	159.7	86.6	78.3
57.5°	27.3	42.2	69.8	42.8	26.4
60°	5.3	17.7	40.2	12.4	1.1
62.5°	1.9	5.2	23.3	3.3	1.1
65°	0.0	1.0	2.1	1.0	0.0
67.5°	0.0	0.8	0.8	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	0.2	0.6	0.8	0.8
90°	0.0	1.0	3.1	4.2	4.2
92.5°	8.4	32.4	95.4	30.9	26.0
95°	27.2	80.5	346.9	123.8	82.8
97.5°	50.1	105.8	605.6	353.2	223.2
100°	66.0	119.3	701.2	602.2	399.3
102.5°	83.6	135.3	695.3	920.3	695.3
105°	111.1	158.2	635.1	1198.3	1120.4
107.5°	139.2	181.2	577.5	1226.5	1285.8
110°	155.1	197.1	548.1	1198.6	1318.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	171.9	213.1	530.5	1149.0	1301.7
115°	198.1	237.0	511.5	1064.8	1245.1
117.5°	224.1	258.7	504.5	984.2	1173.4
120°	240.0	273.8	502.0	933.8	1117.2
122.5°	254.3	287.3	502.0	892.4	1061.9
125°	276.7	307.4	502.0	836.6	986.2
127.5°	295.1	325.3	500.8	794.4	922.3
130°	306.0	337.8	499.9	769.8	884.6
132.5°	316.1	348.7	499.1	749.4	852.7
135°	331.2	365.0	497.8	717.9	810.2
137.5°	347.5	380.1	496.6	687.5	768.9
140°	358.4	390.2	495.7	667.2	742.0
142.5°	368.5	399.5	496.6	646.9	713.5
145°	384.6	413.3	496.8	617.6	676.0
147.5°	402.0	426.0	497.0	592.7	636.2
150°	412.9	434.5	497.8	578.3	615.2
152.5°	423.0	443.7	498.7	566.4	595.9
155°	439.1	454.5	499.9	551.8	572.2
157.5°	454.9	466.8	501.2	541.3	555.9
160°	463.2	473.5	502.0	533.7	545.0
162.5°	471.6	479.4	502.0	528.6	537.5
165°	482.1	487.2	502.0	522.1	527.2
167.5°	491.8	494.4	503.1	516.1	518.8
170°	496.8	497.8	503.1	513.6	514.6
172.5°	500.1	501.2	503.9	511.0	511.3
175°	504.1	504.1	505.2	508.3	507.3
177.5°	506.2	506.2	505.4	507.0	505.4
180°	506.2	506.2	506.2	506.2	506.2

(END OF REPORT)