

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: P559638

Luminaire Tested: **DL2-BB-M-075U-050D-940-UNV-STD-W-4**

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P559638  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-11, 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-075U-050D-940-UNV-STD-W-4  
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

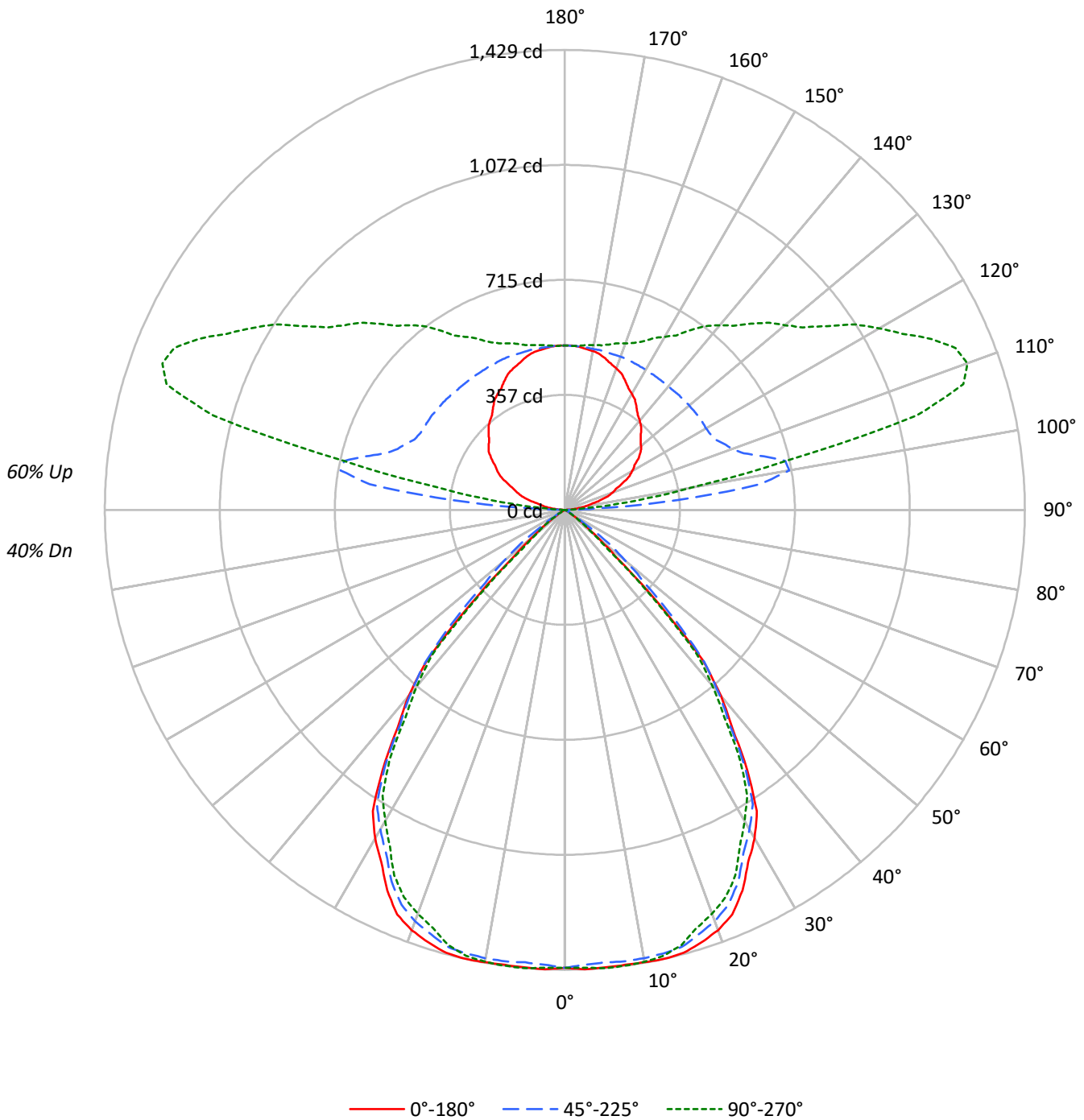
Lumens per Lamp: N/A  
Luminaire Lumens: 5287.7 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 41.4  
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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40
1	97	94	90	87	89	86	83	80	71	69	67	57	56	55	44	43	43	37
2	90	84	78	74	82	77	72	69	64	61	58	52	50	48	41	40	39	34
3	83	75	69	64	76	69	64	59	58	54	51	47	45	43	38	36	35	31
4	77	68	61	56	70	62	57	52	53	48	45	43	41	38	35	33	32	28
5	71	61	54	49	65	57	50	46	48	43	40	40	37	34	32	30	29	25
6	66	55	48	43	61	51	45	41	44	39	36	37	33	31	30	28	26	23
7	61	51	43	38	56	47	41	36	40	36	32	34	30	28	28	26	24	21
8	57	46	39	35	53	43	37	33	37	32	29	31	28	25	26	24	22	20
9	54	42	36	31	49	40	34	30	34	30	26	29	26	23	24	22	20	18
10	50	39	33	28	46	37	31	27	32	27	24	27	24	21	23	20	19	17

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	22976	22976	22976
5°	23131	22874	23165
10°	23399	23191	23381
15°	23821	23502	23397
20°	23886	23376	22941
25°	23257	22693	22335
30°	21973	21380	20810
35°	19476	19247	18705
40°	15898	15675	15051
45°	9373	11063	8720
50°	3162	6164	2816
55°	1072	2204	1132
60°	103	649	36
65°	0	42	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°	136.0	2.6
10°-20°	398.0	7.5
20°-30°	585.7	11.1
30°-40°	598.4	11.3
40°-50°	344.0	6.5
50°-60°	60.2	1.1
60°-70°	2.2	0.0
70°-80°	0.0	0.0
80°-90°	0.6	0.0
90°-100°	193.2	3.7
100°-110°	640.4	12.1
110°-120°	635.6	12.0
120°-130°	517.7	9.8
130°-140°	420.8	8.0
140°-150°	326.8	6.2
150°-160°	235.4	4.5
160°-170°	144.2	2.7
170°-180°	48.7	0.9
0°-30°	1119.6	21.2
0°-40°	1718.0	32.5
0°-60°	2122.2	40.1
0°-90°	2125.0	40.2
90°-120°	1469.2	27.8
90°-150°	2734.5	51.7
90°-180°	3163.0	59.8
0°-180°	5287.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1423	1423	1423	1423	1423	
5°	1427	1424	1411	1431	1429	136
15°	1425	1438	1406	1407	1400	401
25°	1306	1317	1274	1260	1254	597
35°	988	993	976	960	949	610
45°	410	478	484	460	382	321
55°	38	45	78	44	40	43
65°	0	0	1	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	1	3	4	4	1
95°	28	81	350	125	84	31
105°	112	160	641	1209	1131	118
115°	200	239	516	1074	1256	198
125°	279	310	507	844	995	248
135°	334	368	502	724	818	259
145°	388	417	501	623	682	243
155°	443	459	504	557	578	204
165°	486	492	507	527	532	137
175°	509	509	510	513	512	48
180°	511	511	511	511	511	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1423.0	1423.0	1423.0	1423.0	1423.0
2.5°	1428.9	1425.6	1414.5	1427.1	1423.8
5°	1427.2	1424.1	1411.3	1431.4	1429.3
7.5°	1426.3	1423.9	1415.3	1432.8	1428.7
10°	1427.2	1427.2	1414.5	1430.3	1426.1
12.5°	1428.9	1433.0	1412.0	1424.3	1418.5
15°	1425.1	1437.5	1406.0	1406.9	1399.7
17.5°	1409.6	1426.4	1383.4	1373.2	1362.2
20°	1390.2	1407.7	1360.5	1344.5	1335.2
22.5°	1360.5	1377.3	1327.5	1314.0	1303.8
25°	1305.5	1316.9	1273.8	1259.9	1253.7
27.5°	1233.6	1239.4	1201.8	1187.4	1177.1
30°	1178.6	1178.6	1146.8	1130.6	1116.2
32.5°	1110.0	1106.7	1085.9	1067.2	1053.5
35°	988.1	993.3	976.5	960.4	949.0
37.5°	853.4	858.3	841.1	822.7	814.8
40°	754.3	758.5	743.7	724.5	714.1
42.5°	632.5	654.8	641.3	620.3	606.6
45°	410.5	477.7	484.5	459.5	381.9
47.5°	213.9	284.3	336.0	256.6	179.9
50°	125.9	171.4	245.4	140.1	112.1
52.5°	81.0	100.9	172.7	89.6	75.8
55°	38.1	45.3	78.3	44.3	40.2
57.5°	14.2	21.2	35.3	21.4	15.4
60°	3.2	9.4	20.1	6.2	1.1
62.5°	0.6	2.7	11.6	1.2	0.2
65°	0.0	0.0	1.1	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	0.2	0.6	0.8	0.8
90°	0.0	1.0	3.2	4.2	4.2
92.5°	8.5	32.7	96.2	31.2	26.2
95°	27.5	81.3	350.1	124.9	83.6
97.5°	50.6	106.8	611.1	356.4	225.3
100°	66.6	120.4	707.6	607.7	403.0
102.5°	84.4	136.5	701.6	928.7	701.6
105°	112.1	159.7	640.9	1209.2	1130.6
107.5°	140.5	182.9	582.8	1237.7	1297.5
110°	156.5	198.9	553.1	1209.5	1330.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	173.5	215.0	535.4	1159.5	1313.6
115°	199.9	239.2	516.1	1074.5	1256.5
117.5°	226.1	261.1	509.1	993.2	1184.1
120°	242.2	276.3	506.6	942.3	1127.4
122.5°	256.6	289.9	506.6	900.6	1071.6
125°	279.2	310.2	506.6	844.3	995.2
127.5°	297.8	328.2	505.3	801.7	930.7
130°	308.8	340.9	504.5	776.8	892.6
132.5°	319.0	351.9	503.6	756.3	860.5
135°	334.2	368.3	502.4	724.5	817.6
137.5°	350.7	383.6	501.1	693.8	775.9
140°	361.7	393.8	500.3	673.3	748.8
142.5°	371.9	403.1	501.1	652.8	720.0
145°	388.2	417.1	501.3	623.2	682.2
147.5°	405.7	429.9	501.5	598.1	642.0
150°	416.7	438.4	502.4	583.6	620.8
152.5°	426.9	447.8	503.2	571.6	601.4
155°	443.1	458.7	504.5	556.8	577.5
157.5°	459.0	471.0	505.8	546.3	561.0
160°	467.5	477.8	506.6	538.6	550.0
162.5°	475.9	483.8	506.6	533.5	542.4
165°	486.5	491.7	506.6	526.8	532.0
167.5°	496.2	498.9	507.7	520.8	523.5
170°	501.3	502.4	507.7	518.3	519.3
172.5°	504.7	505.7	508.5	515.7	515.9
175°	508.7	508.7	509.8	512.9	511.9
177.5°	510.8	510.8	510.0	511.6	510.0
180°	510.8	510.8	510.8	510.8	510.8

(END OF REPORT)