

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: P559640

Luminaire Tested: **DL2-BB-M-075U-075D-935-UNV-STD-W-4**

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P559640  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-11, G3-2104-222-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: DL2-BB-M-075U-075D-935-UNV-STD-W-4  
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

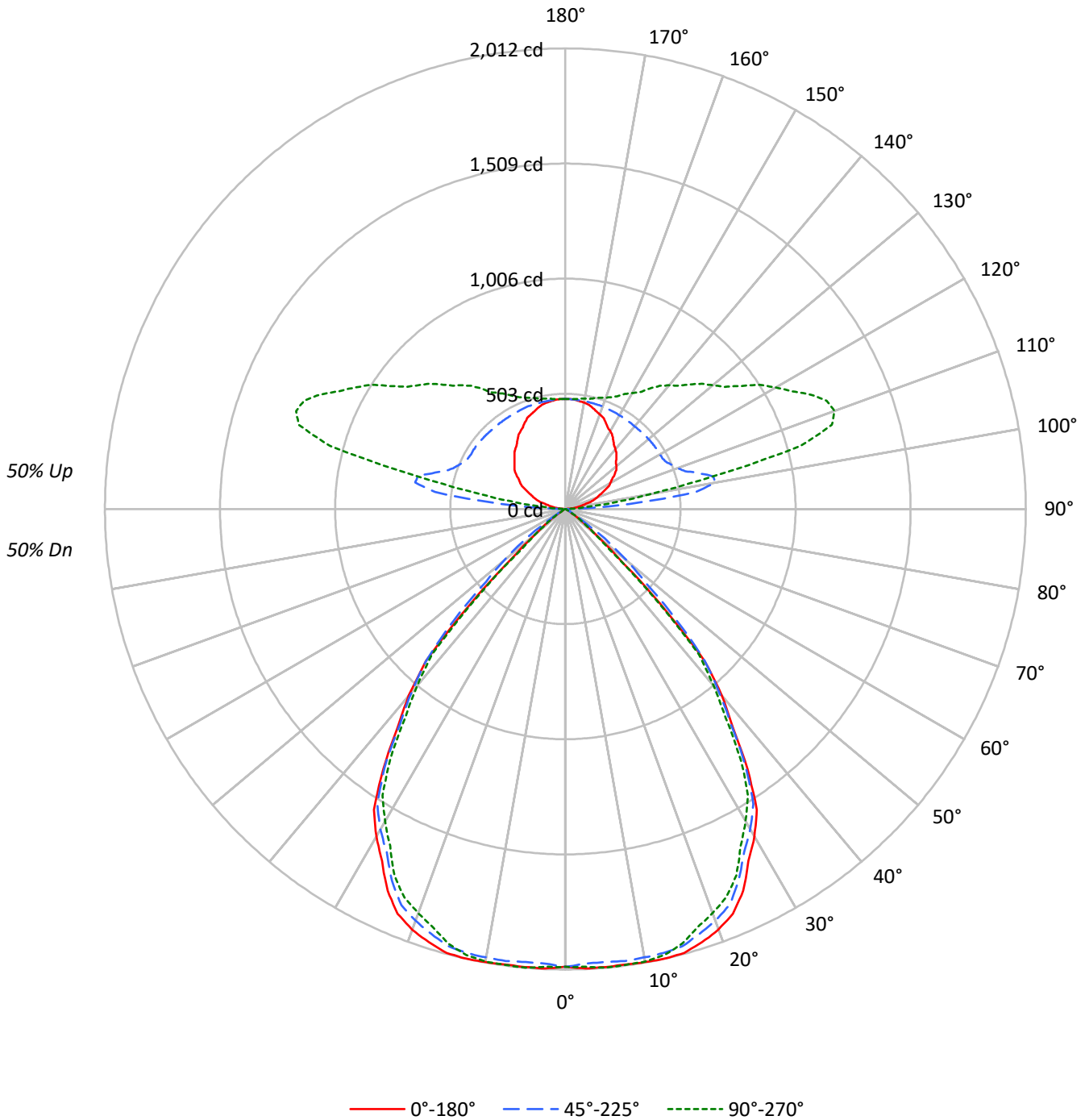
Lumens per Lamp: N/A  
Luminaire Lumens: 5967.2 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 50.9  
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



TEST NUMBER: P559640  
CATALOG NUMBER: DL2-BB-M-075U-075D-935-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P559640

CATALOG NUMBER: DL2-BB-M-075U-075D-935-UNV-STD-W-4

**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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	100	96	93	90	92	89	87	84	76	74	72	64	63	62	53	52	51	46
2	93	86	81	77	86	80	76	72	69	66	63	59	57	55	49	48	47	42
3	86	78	72	67	79	73	67	63	63	59	56	54	51	49	45	44	42	38
4	80	71	64	59	74	66	60	56	57	53	50	49	46	44	42	40	38	35
5	74	64	57	52	69	60	54	49	53	48	44	46	42	40	39	37	35	32
6	69	58	51	46	64	55	49	44	48	43	40	42	38	36	36	34	32	29
7	64	53	46	41	60	50	44	40	44	40	36	39	35	32	34	31	29	27
8	60	49	42	37	56	46	40	36	41	36	33	36	32	30	31	29	27	24
9	56	45	38	34	52	43	37	32	38	33	30	33	30	27	29	27	25	23
10	53	42	35	31	49	39	34	30	35	30	27	31	28	25	27	25	23	21

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

	0°	45°	90°
0°	32298	32298	32298
5°	32551	32195	32600
10°	32960	32616	32911
15°	33555	33053	32886
20°	33598	32892	32290
25°	32767	31930	31483
30°	30803	30130	29366
35°	27338	27122	26311
40°	22419	22040	21218
45°	13367	15721	12545
50°	4172	8721	3946
55°	1576	3099	1576
60°	97	872	32
65°	0	38	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P559640

CATALOG NUMBER: DL2-BB-M-075U-075D-935-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.3	3.2
10°-20°	560.2	9.4
20°-30°	824.2	13.8
30°-40°	842.4	14.1
40°-50°	485.3	8.1
50°-60°	83.7	1.4
60°-70°	3.0	0.1
70°-80°	0.0	0.0
80°-90°	0.6	0.0
90°-100°	181.8	3.0
100°-110°	602.7	10.1
110°-120°	598.2	10.0
120°-130°	487.2	8.2
130°-140°	396.0	6.6
140°-150°	307.5	5.2
150°-160°	221.6	3.7
160°-170°	135.7	2.3
170°-180°	45.8	0.8
0°-30°	1575.7	26.4
0°-40°	2418.2	40.5
0°-60°	2987.2	50.1
0°-90°	2990.8	50.1
90°-120°	1382.7	23.2
90°-150°	2573.4	43.1
90°-180°	2977.0	49.9
0°-180°	5967.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2000	2000	2000	2000	2000	
5°	2008	2004	1986	2013	2011	192
15°	2007	2024	1977	1980	1967	565
25°	1839	1856	1792	1774	1767	839
35°	1387	1398	1376	1350	1335	857
45°	585	672	688	650	549	453
55°	56	64	110	62	56	59
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°	26	76	330	118	79	30
105°	106	150	603	1138	1064	111
115°	188	225	486	1011	1182	186
125°	263	292	477	794	937	234
135°	314	347	473	682	769	243
145°	365	392	472	586	642	229
155°	417	432	475	524	543	192
165°	458	463	477	496	501	129
175°	479	479	480	483	482	45
180°	481	481	481	481	481	



TEST NUMBER: P559640

CATALOG NUMBER: DL2-BB-M-075U-075D-935-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2000.4	2000.4	2000.4	2000.4	2000.4
2.5°	2009.2	2003.7	1987.6	2005.9	2002.0
5°	2008.4	2003.5	1986.4	2013.4	2011.4
7.5°	2007.2	2003.9	1991.8	2013.9	2009.0
10°	2010.4	2009.4	1989.4	2012.3	2007.4
12.5°	2012.0	2018.1	1987.0	2005.0	1996.2
15°	2007.4	2024.0	1977.4	1980.1	1967.4
17.5°	1985.0	2008.5	1946.4	1934.9	1916.9
20°	1955.4	1982.8	1914.3	1895.0	1879.3
22.5°	1913.7	1938.8	1873.5	1849.4	1836.9
25°	1839.3	1855.9	1792.3	1774.1	1767.2
27.5°	1733.8	1738.5	1690.6	1668.0	1659.2
30°	1652.2	1652.2	1616.1	1591.7	1575.1
32.5°	1556.9	1554.5	1528.9	1502.1	1485.4
35°	1387.0	1397.7	1376.0	1349.6	1334.9
37.5°	1203.0	1207.1	1190.6	1162.3	1150.0
40°	1063.7	1064.7	1045.7	1025.3	1006.7
42.5°	901.2	921.0	903.2	871.0	863.4
45°	585.4	672.5	688.5	650.2	549.4
47.5°	294.2	402.6	470.5	365.4	258.8
50°	166.1	230.7	347.2	193.3	157.1
52.5°	110.9	139.4	240.8	126.4	105.9
55°	56.0	63.9	110.1	61.9	56.0
57.5°	19.0	29.6	47.8	30.6	21.0
60°	3.0	12.8	27.0	9.8	1.0
62.5°	0.6	3.3	16.6	2.7	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	0.2	0.6	0.8	0.8
90°	0.0	1.0	3.0	4.0	4.0
92.5°	8.0	30.7	90.6	29.4	24.7
95°	25.9	76.5	329.5	117.6	78.6
97.5°	47.6	100.5	575.1	335.4	212.0
100°	62.7	113.3	665.9	571.9	379.2
102.5°	79.4	128.5	660.3	874.0	660.3
105°	105.5	150.3	603.2	1138.0	1064.0
107.5°	132.2	172.1	548.4	1164.8	1221.1
110°	147.3	187.2	520.6	1138.2	1252.1



TEST NUMBER: P559640

CATALOG NUMBER: DL2-BB-M-075U-075D-935-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	163.2	202.4	503.8	1091.2	1236.2
115°	188.1	225.1	485.7	1011.2	1182.4
117.5°	212.8	245.7	479.1	934.7	1114.4
120°	227.9	260.0	476.8	886.8	1061.0
122.5°	241.5	272.8	476.8	847.5	1008.5
125°	262.8	292.0	476.8	794.5	936.6
127.5°	280.3	308.9	475.6	754.4	875.9
130°	290.6	320.8	474.8	731.0	840.0
132.5°	300.2	331.1	474.0	711.7	809.8
135°	314.5	346.6	472.8	681.8	769.4
137.5°	330.0	361.0	471.6	652.9	730.2
140°	340.4	370.6	470.8	633.6	704.7
142.5°	350.0	379.3	471.6	614.4	677.6
145°	365.3	392.5	471.8	586.5	642.0
147.5°	381.8	404.6	472.0	562.9	604.2
150°	392.2	412.6	472.8	549.2	584.3
152.5°	401.7	421.4	473.6	537.9	565.9
155°	417.0	431.6	474.8	524.0	543.4
157.5°	432.0	443.3	476.0	514.1	527.9
160°	439.9	449.7	476.8	506.9	517.6
162.5°	447.9	455.3	476.8	502.0	510.4
165°	457.8	462.7	476.8	495.8	500.6
167.5°	467.0	469.5	477.8	490.2	492.7
170°	471.8	472.8	477.8	487.7	488.7
172.5°	475.0	475.9	478.5	485.3	485.5
175°	478.7	478.7	479.7	482.7	481.7
177.5°	480.7	480.7	479.9	481.5	479.9
180°	480.7	480.7	480.7	480.7	480.7

(END OF REPORT)