

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: P559616

Luminaire Tested: **DL2-BB-M-025U-075D-935-UNV-STD-W-4**

Issue Date: 3/5/2020

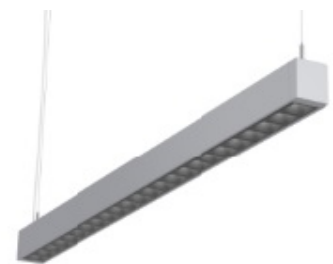
**Test Information**

Test Method: LM-79-08  
Report Number: P559616  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-9, 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-025U-075D-935-UNV-STD-W-4  
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

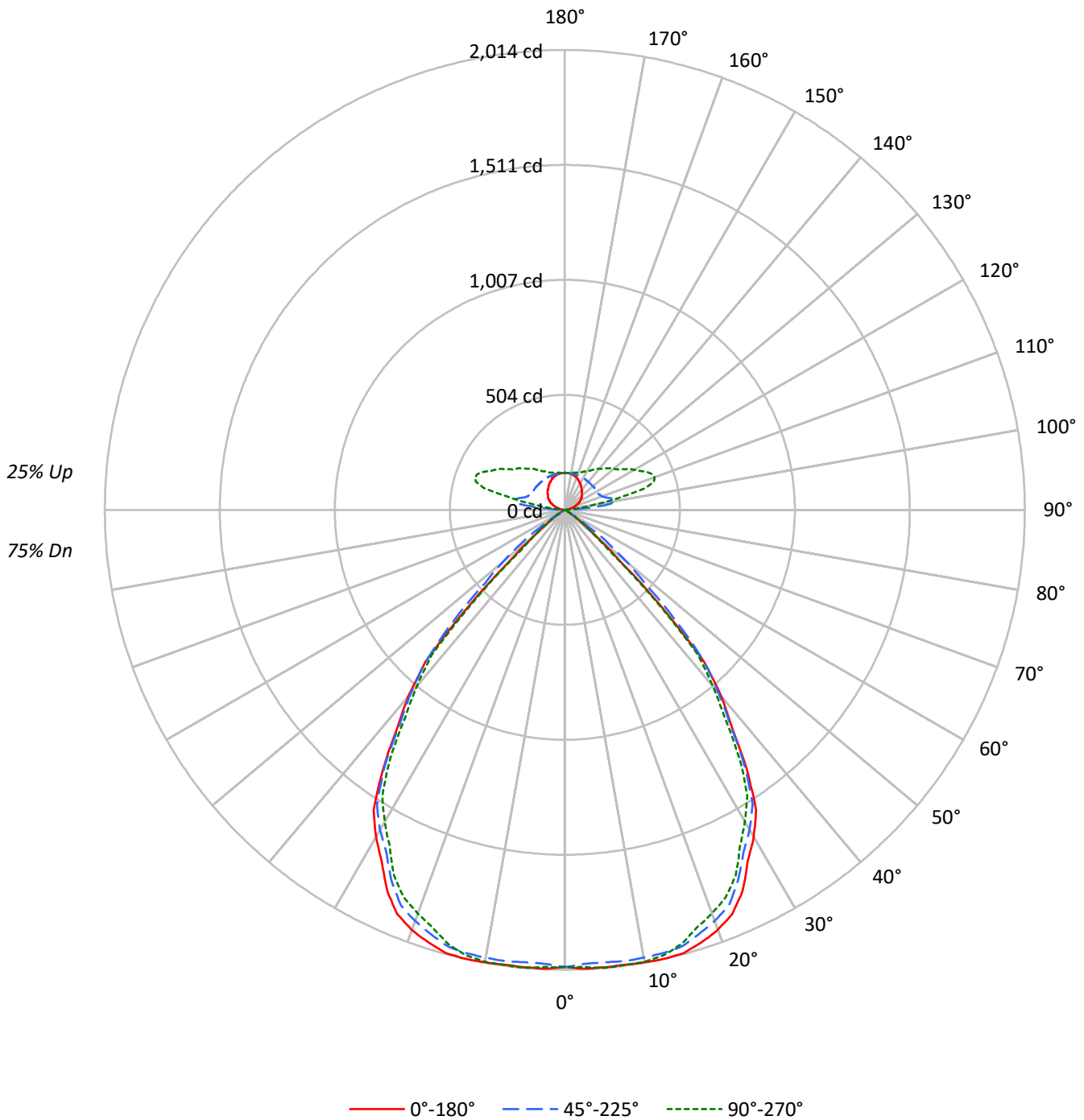
Lumens per Lamp: N/A  
Luminaire Lumens: 3999.0 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 35  
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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	106	103	100	97	101	98	96	93	90	88	86	82	80	79	74	73	72	69
2	99	94	89	85	95	90	86	82	82	79	76	76	73	71	69	68	66	63
3	93	85	79	75	89	82	77	73	76	72	68	70	67	64	64	62	60	57
4	87	78	71	66	83	75	69	65	70	65	61	65	61	58	60	57	55	52
5	81	71	64	59	77	69	63	58	64	59	55	60	56	52	56	52	50	47
6	76	65	59	54	73	63	57	52	59	54	50	55	51	48	52	48	46	43
7	71	60	53	48	68	58	52	48	55	49	46	51	47	44	48	44	42	40
8	67	56	49	44	64	54	48	43	51	45	42	48	43	40	45	41	38	36
9	63	52	45	40	60	50	44	40	47	42	38	45	40	37	42	38	35	34
10	59	48	41	37	57	47	41	36	44	39	35	42	37	34	39	35	33	31

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

	0°	45°	90°
0°	32330	32330	32330
5°	32584	32225	32632
10°	32993	32647	32944
15°	33588	33085	32918
20°	33630	32924	32323
25°	32799	31960	31515
30°	30833	30160	29394
35°	27364	27147	26337
40°	22443	22063	21239
45°	13381	15737	12556
50°	4177	8731	3951
55°	1579	3102	1579
60°	97	872	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°	191.4	4.8
10°-20°	560.8	14.0
20°-30°	825.0	20.6
30°-40°	843.3	21.1
40°-50°	485.8	12.1
50°-60°	83.7	2.1
60°-70°	3.0	0.1
70°-80°	0.0	0.0
80°-90°	0.5	0.0
90°-100°	65.6	1.6
100°-110°	203.9	5.1
110°-120°	199.5	5.0
120°-130°	162.9	4.1
130°-140°	133.2	3.3
140°-150°	104.0	2.6
150°-160°	75.0	1.9
160°-170°	45.9	1.1
170°-180°	15.5	0.4
0°-30°	1577.3	39.4
0°-40°	2420.5	60.5
0°-60°	2990.1	74.8
0°-90°	2993.6	74.9
90°-120°	469.0	11.7
90°-150°	869.1	21.7
90°-180°	1006.0	25.2
0°-180°	3999.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2002	2002	2002	2002	2002	
5°	2010	2006	1988	2015	2013	192
15°	2009	2026	1979	1982	1969	566
25°	1841	1858	1794	1776	1769	840
35°	1388	1399	1377	1351	1336	858
45°	586	673	689	651	550	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	3	3	0
95°	9	26	120	44	29	10
105°	36	50	201	383	366	38
115°	64	75	163	336	394	63
125°	88	98	161	264	310	79
135°	106	118	160	228	256	82
145°	124	134	160	197	215	78
155°	142	147	161	177	183	66
165°	156	157	162	167	169	44
175°	162	162	162	163	162	15
180°	162	162	162	162	162	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2002.4	2002.4	2002.4	2002.4	2002.4
2.5°	2011.2	2005.7	1989.5	2007.9	2004.0
5°	2010.4	2005.5	1988.3	2015.3	2013.4
7.5°	2009.2	2005.8	1993.7	2015.9	2011.0
10°	2012.4	2011.4	1991.3	2014.3	2009.4
12.5°	2014.0	2020.1	1988.9	2007.0	1998.2
15°	2009.4	2026.0	1979.3	1982.0	1969.3
17.5°	1986.9	2010.4	1948.3	1936.8	1918.8
20°	1957.3	1984.7	1916.2	1896.8	1881.2
22.5°	1915.6	1940.7	1875.3	1851.2	1838.7
25°	1841.1	1857.7	1794.0	1775.8	1769.0
27.5°	1735.5	1740.2	1692.2	1669.6	1660.8
30°	1653.8	1653.8	1617.7	1593.3	1576.6
32.5°	1558.4	1556.1	1530.4	1503.5	1486.9
35°	1388.3	1399.1	1377.3	1350.9	1336.2
37.5°	1204.2	1208.3	1191.8	1163.5	1151.1
40°	1064.8	1065.8	1046.8	1026.3	1007.7
42.5°	902.1	921.9	904.1	871.9	864.3
45°	586.0	673.2	689.2	650.8	549.9
47.5°	294.5	403.0	471.0	365.8	259.0
50°	166.3	230.9	347.6	193.5	157.3
52.5°	111.0	139.6	241.0	126.5	106.0
55°	56.1	63.9	110.2	62.0	56.1
57.5°	19.0	29.6	47.9	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	0.6	0.6
90°	0.0	1.0	3.0	3.0	3.0
92.5°	3.2	11.1	38.0	12.5	10.1
95°	8.9	26.4	120.3	44.4	28.8
97.5°	16.3	34.4	199.2	124.0	78.1
100°	21.9	38.4	224.6	210.1	140.1
102.5°	27.4	43.2	219.9	300.1	235.6
105°	35.8	50.4	200.8	383.3	365.8
107.5°	44.1	57.7	182.5	389.7	408.9
110°	49.7	63.3	172.9	380.5	418.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	55.3	68.1	168.2	364.1	412.1
115°	63.6	75.3	163.0	336.3	393.6
117.5°	71.8	82.5	160.8	309.7	368.4
120°	76.5	87.2	160.0	294.5	350.9
122.5°	81.3	92.0	160.8	281.7	333.4
125°	88.5	98.2	161.0	264.4	310.1
127.5°	94.2	104.1	161.0	251.6	290.4
130°	97.4	108.1	161.0	244.3	279.3
132.5°	101.4	112.1	160.2	237.9	270.5
135°	106.4	118.0	160.0	228.3	256.4
137.5°	112.1	122.8	160.0	218.7	244.3
140°	115.3	126.0	160.0	212.2	235.6
142.5°	119.3	129.2	160.0	205.8	226.8
145°	124.2	134.0	160.0	197.2	214.7
147.5°	130.2	138.6	161.0	189.2	203.0
150°	134.2	141.0	161.0	185.1	195.8
152.5°	137.4	143.4	161.0	181.1	190.2
155°	142.1	147.0	161.0	177.1	182.9
157.5°	146.9	150.6	161.0	173.4	177.1
160°	150.1	153.0	161.0	171.0	173.9
162.5°	152.5	154.6	161.0	169.4	171.6
165°	156.0	157.0	162.0	167.0	169.0
167.5°	158.2	158.4	161.0	165.6	166.6
170°	159.0	160.0	161.0	164.0	165.0
172.5°	160.6	160.8	161.8	163.2	163.4
175°	162.0	162.0	162.0	163.0	162.0
177.5°	162.0	162.0	162.0	162.0	162.0
180°	162.0	162.0	162.0	162.0	162.0

(END OF REPORT)