

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: P559699

Luminaire Tested: **DL2-WB-M-025U-075D-930-UNV-STD-W-4**

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P559699  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-9, G3-2104-222-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: DL2-WB-M-025U-075D-930-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**

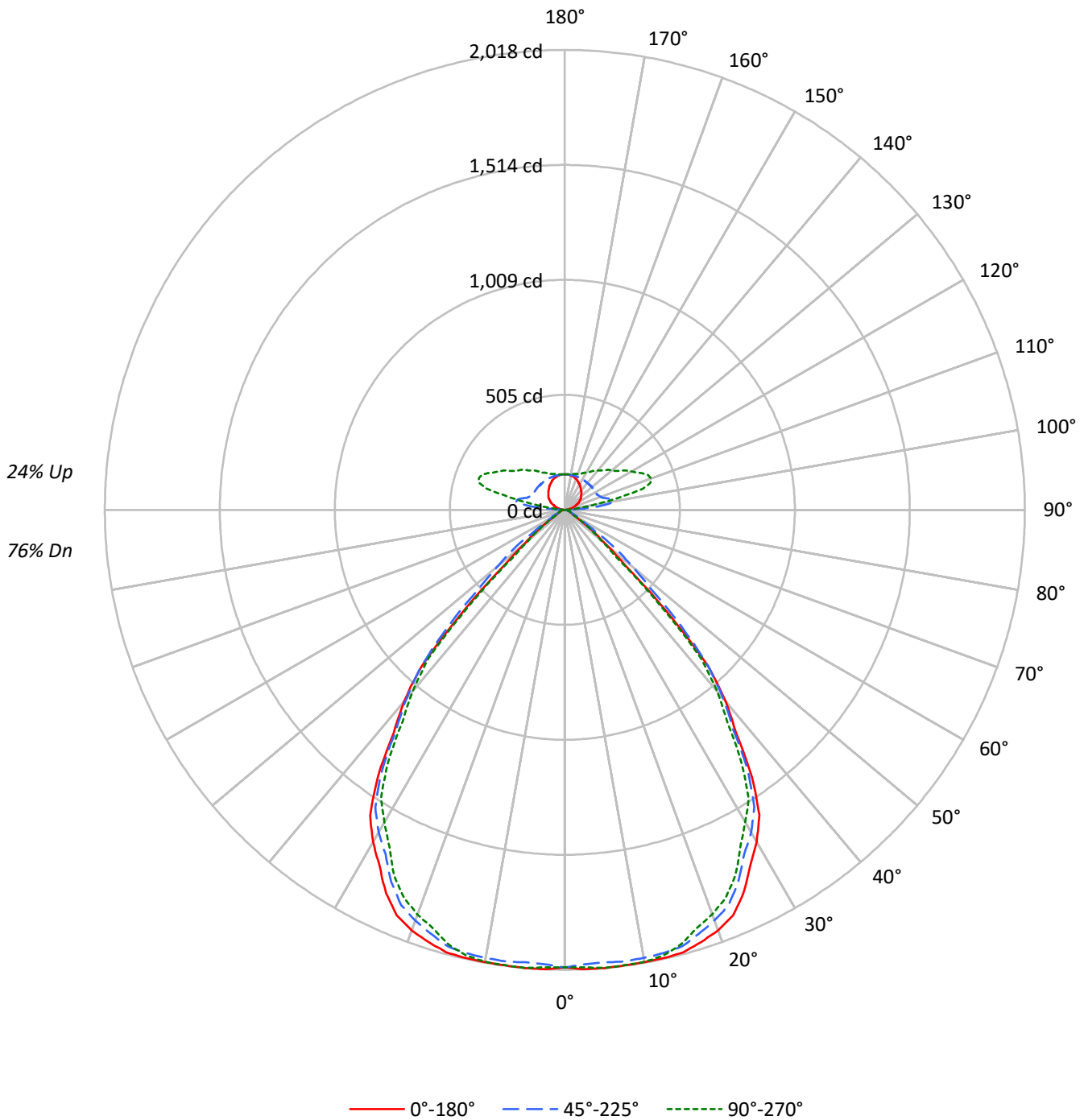
Lumens per Lamp: N/A  
Luminaire Lumens: 4107.6 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.18 / 1.17  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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	98	98	98	89	89	89	80	80	80	76
1	106	103	100	97	101	99	96	93	90	88	86	82	81	80	75	74	73	70
2	99	93	88	84	95	90	85	82	83	79	76	76	73	71	70	68	66	63
3	93	85	79	74	89	82	76	72	76	71	68	70	67	64	65	62	60	57
4	86	77	71	66	83	75	69	64	69	65	61	64	61	57	60	57	54	52
5	81	71	64	59	77	68	62	57	64	59	55	60	55	52	56	52	49	47
6	75	65	58	53	72	63	56	52	59	53	49	55	51	47	52	48	45	43
7	71	60	53	48	68	58	51	47	54	49	45	51	46	43	48	44	41	39
8	66	55	48	43	63	53	47	43	50	45	41	47	43	39	45	41	38	36
9	62	51	44	40	60	50	43	39	47	41	38	44	40	36	42	38	35	33
10	59	47	41	36	56	46	40	36	44	38	35	41	37	33	39	35	32	31

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

	0°	45°	90°
0°	32411	32411	32411
5°	32707	32302	32692
10°	33037	32723	33023
15°	33588	33153	32991
20°	33747	32953	32459
25°	33054	32076	31545
30°	31362	30464	29496
35°	28206	27618	26613
40°	23123	22778	21905
45°	14458	16459	13579
50°	5657	9595	5172
55°	2790	4470	2764
60°	1305	2144	1182
65°	1177	1249	1104
70°	1138	1180	1090
75°	1142	1142	1023
80°	1069	1069	986
85°	1074	889	889



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.9	4.7
10°-20°	561.2	13.7
20°-30°	829.8	20.2
30°-40°	858.6	20.9
40°-50°	516.4	12.6
50°-60°	123.6	3.0
60°-70°	33.8	0.8
70°-80°	18.9	0.5
80°-90°	6.3	0.2
90°-100°	63.1	1.5
100°-110°	196.1	4.8
110°-120°	191.9	4.7
120°-130°	156.6	3.8
130°-140°	128.2	3.1
140°-150°	100.0	2.4
150°-160°	72.2	1.8
160°-170°	44.1	1.1
170°-180°	14.9	0.4
0°-30°	1582.9	38.5
0°-40°	2441.5	59.4
0°-60°	3081.5	75.0
0°-90°	3140.5	76.5
90°-120°	451.1	11.0
90°-150°	835.9	20.4
90°-180°	967.0	23.5
0°-180°	4107.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2007	2007	2007	2007	2007	
5°	2018	2011	1993	2020	2017	192
15°	2009	2024	1983	1983	1974	566
25°	1855	1870	1800	1781	1771	848
35°	1431	1429	1401	1369	1350	878
45°	633	719	721	685	595	490
55°	99	111	159	106	98	99
65°	31	32	33	31	29	31
75°	18	18	18	17	16	19
85°	6	6	5	5	5	6
90°	0	1	3	3	3	1
95°	9	25	116	43	28	10
105°	34	48	193	369	352	36
115°	61	72	157	323	379	60
125°	85	94	155	254	298	76
135°	102	114	154	220	247	79
145°	120	129	154	190	206	75
155°	137	141	155	170	176	63
165°	150	151	156	161	162	42
175°	156	156	156	157	156	15
180°	156	156	156	156	156	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2007.4	2007.4	2007.4	2007.4	2007.4
2.5°	2017.4	2012.2	1995.9	2012.7	2009.0
5°	2018.0	2011.4	1993.0	2019.9	2017.1
7.5°	2015.9	2013.1	1999.0	2019.3	2014.9
10°	2015.1	2016.1	1995.9	2017.0	2014.2
12.5°	2014.4	2022.1	1992.8	2009.2	2002.6
15°	2009.4	2024.4	1983.4	1983.2	1973.7
17.5°	1988.0	2005.9	1951.0	1936.0	1924.5
20°	1964.1	1982.0	1917.9	1893.8	1889.1
22.5°	1926.4	1945.8	1877.1	1850.6	1842.9
25°	1855.4	1870.4	1800.5	1781.0	1770.7
27.5°	1760.7	1769.0	1703.3	1681.1	1666.8
30°	1682.2	1685.9	1634.0	1604.7	1582.1
32.5°	1589.0	1592.8	1547.0	1519.3	1501.2
35°	1431.0	1429.1	1401.2	1369.0	1350.2
37.5°	1233.3	1236.0	1213.9	1188.4	1169.4
40°	1097.1	1098.9	1080.7	1044.0	1039.3
42.5°	930.8	959.0	934.4	905.8	883.8
45°	633.2	718.8	720.8	685.1	594.7
47.5°	357.6	455.1	511.4	408.8	299.1
50°	225.2	291.1	382.0	242.6	205.9
52.5°	159.7	193.2	288.1	170.7	151.3
55°	99.1	111.4	158.8	105.7	98.2
57.5°	58.9	71.5	90.3	71.5	59.7
60°	40.4	50.8	66.4	46.9	36.6
62.5°	35.0	39.4	52.5	37.1	33.5
65°	30.8	31.7	32.7	30.8	28.9
67.5°	27.1	28.1	27.3	27.1	25.4
70°	24.1	25.0	25.0	24.0	23.1
72.5°	21.7	22.7	21.9	21.7	20.0
75°	18.3	18.3	18.3	17.3	16.4
77.5°	13.9	14.8	13.9	13.8	12.9
80°	11.5	12.5	11.5	11.5	10.6
82.5°	9.2	9.4	9.2	9.2	8.3
85°	5.8	5.8	4.8	4.8	4.8
87.5°	1.5	2.5	2.1	2.1	2.1
90°	0.0	0.9	2.9	2.9	2.9
92.5°	3.1	10.7	36.5	12.0	9.8
95°	8.6	25.4	115.7	42.7	27.7
97.5°	15.7	33.1	191.6	119.3	75.1
100°	21.0	36.9	216.0	202.1	134.8
102.5°	26.4	41.5	211.5	288.6	226.6
105°	34.4	48.4	193.1	368.6	351.8
107.5°	42.4	55.5	175.5	374.8	393.3
110°	47.8	60.9	166.3	366.0	402.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	53.2	65.5	161.7	350.2	396.3
115°	61.2	72.4	156.8	323.4	378.6
117.5°	69.0	79.3	154.7	297.8	354.3
120°	73.6	83.9	153.9	283.2	337.5
122.5°	78.2	88.5	154.7	270.9	320.6
125°	85.1	94.4	154.9	254.3	298.3
127.5°	90.6	100.2	154.9	241.9	279.3
130°	93.7	104.0	154.9	235.0	268.6
132.5°	97.5	107.8	154.1	228.8	260.2
135°	102.3	113.5	153.9	219.5	246.6
137.5°	107.8	118.1	153.9	210.3	235.0
140°	110.9	121.2	153.9	204.1	226.6
142.5°	114.7	124.3	153.9	198.0	218.2
145°	119.5	128.8	153.9	189.7	206.5
147.5°	125.2	133.3	154.9	181.9	195.2
150°	129.1	135.6	154.9	178.0	188.3
152.5°	132.1	137.9	154.9	174.2	183.0
155°	136.7	141.4	154.9	170.3	175.9
157.5°	141.3	144.8	154.9	166.8	170.4
160°	144.4	147.2	154.9	164.5	167.3
162.5°	146.6	148.7	154.9	162.9	165.0
165°	150.1	151.0	155.8	160.6	162.5
167.5°	152.2	152.4	154.9	159.3	160.2
170°	153.0	153.9	154.9	157.8	158.7
172.5°	154.5	154.7	155.6	157.0	157.2
175°	155.8	155.8	155.8	156.8	155.8
177.5°	155.8	155.8	155.8	155.8	155.8
180°	155.8	155.8	155.8	155.8	155.8

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