

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: P559711

Luminaire Tested: **DL2-WB-M-050U-075D-930-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559711
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-10, 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-050U-075D-930-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5031.0 lumens
Efficiency: N/A
Efficacy: 118.7 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

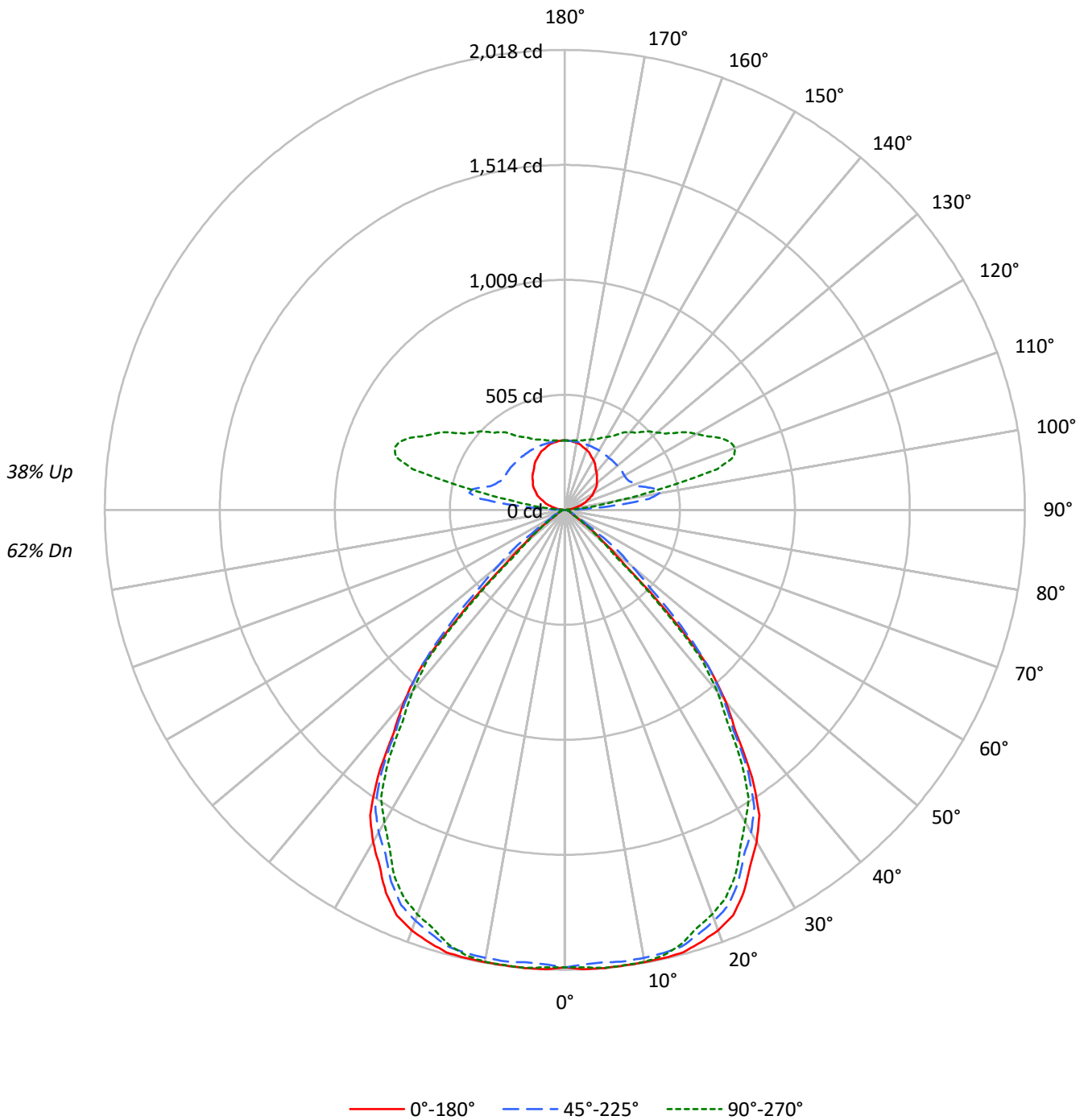
Input Watts (W): 42.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68	62				
1	103	99	96	93	96	93	91	88	82	81	79	72	71	70	63	62	61	57				
2	96	89	84	80	90	84	80	76	75	72	69	66	64	62	59	57	55	52				
3	89	81	75	70	83	77	71	67	69	64	61	61	58	55	54	52	50	47				
4	83	73	67	61	78	70	64	59	63	58	54	56	53	50	50	47	45	42				
5	77	67	60	55	72	64	57	53	57	52	49	52	48	45	46	43	41	38				
6	72	61	54	49	68	58	52	47	53	48	44	48	44	41	43	40	37	35				
7	67	56	49	44	63	53	47	42	49	43	40	44	40	37	40	37	34	32				
8	63	51	44	40	59	49	43	38	45	40	36	41	37	34	37	34	31	29				
9	59	48	41	36	55	46	39	35	42	37	33	38	34	31	35	31	29	27				
10	55	44	37	33	52	42	36	32	39	34	30	36	31	28	32	29	27	25				

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	3.8
10°-20°	561.2	11.2
20°-30°	829.8	16.5
30°-40°	858.6	17.1
40°-50°	516.4	10.3
50°-60°	123.6	2.5
60°-70°	33.8	0.7
70°-80°	18.9	0.4
80°-90°	6.3	0.1
90°-100°	121.3	2.4
100°-110°	384.6	7.6
110°-120°	377.1	7.5
120°-130°	306.9	6.1
130°-140°	250.2	5.0
140°-150°	195.1	3.9
150°-160°	140.6	2.8
160°-170°	85.9	1.7
170°-180°	29.0	0.6
0°-30°	1582.9	31.5
0°-40°	2441.5	48.5
0°-60°	3081.5	61.2
0°-90°	3140.5	62.4
90°-120°	883.0	17.6
90°-150°	1635.1	32.5
90°-180°	1891.0	37.6
0°-180°	5031.0	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°	16	49	220	82	53	19
105°	67	94	379	722	692	71
115°	120	142	306	636	749	118
125°	166	185	302	499	588	147
135°	200	220	300	429	483	154
145°	234	251	300	370	403	146
155°	266	276	301	331	344	123
165°	290	293	302	313	316	82
175°	304	302	304	305	304	29
180°	304	304	304	304	304	

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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°	5.4	21.3	68.0	22.6	15.9
95°	16.3	49.0	220.2	81.7	52.7
97.5°	30.3	63.6	373.0	233.1	143.0
100°	40.2	72.0	425.1	387.5	251.8
102.5°	50.9	81.3	415.9	569.1	435.6
105°	67.0	94.2	379.1	722.1	692.1
107.5°	83.1	108.2	344.1	738.1	778.5
110°	93.8	118.2	326.4	719.7	794.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	104.5	127.4	316.5	688.0	783.1
115°	119.7	142.1	306.3	636.3	748.6
117.5°	134.4	155.8	302.3	586.5	699.8
120°	143.6	164.2	301.6	555.8	665.3
122.5°	152.8	172.6	301.6	531.1	633.2
125°	165.6	185.3	301.6	498.9	587.8
127.5°	176.9	195.8	301.6	473.9	549.7
130°	183.8	203.5	301.6	459.2	527.5
132.5°	190.7	210.4	300.8	447.5	509.1
135°	200.1	219.7	299.6	429.2	483.4
137.5°	209.3	229.9	299.5	411.6	460.1
140°	215.4	236.0	298.7	399.2	443.2
142.5°	223.1	242.9	299.5	386.9	427.9
145°	233.6	251.4	299.6	370.3	403.0
147.5°	244.1	259.3	299.8	355.6	382.4
150°	251.8	263.9	300.6	347.0	368.6
152.5°	257.9	268.6	300.6	340.1	357.8
155°	266.1	275.5	300.6	330.6	343.7
157.5°	274.9	281.3	301.6	324.7	333.7
160°	279.5	285.2	301.6	320.9	328.4
162.5°	284.1	288.3	301.6	317.8	323.0
165°	290.1	292.9	301.6	313.1	315.9
167.5°	295.6	296.4	302.5	309.8	312.3
170°	298.7	298.7	302.5	308.3	309.2
172.5°	300.2	301.0	302.5	306.7	306.9
175°	303.5	302.5	303.5	305.4	304.4
177.5°	304.4	303.7	303.7	305.2	303.7
180°	304.4	304.4	304.4	304.4	304.4

(END OF REPORT)