

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: P559630

Luminaire Tested: **DL2-BB-M-050U-100D-930-UNV-STD-W-4**

Issue Date: 3/5/2020

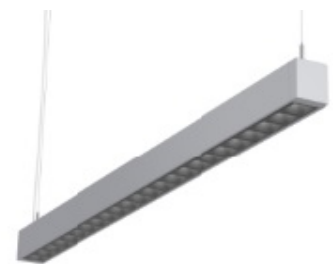
Test Information

Test Method: LM-79-08
Report Number: P559630
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-10, G3-2104-222-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DL2-BB-M-050U-100D-930-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

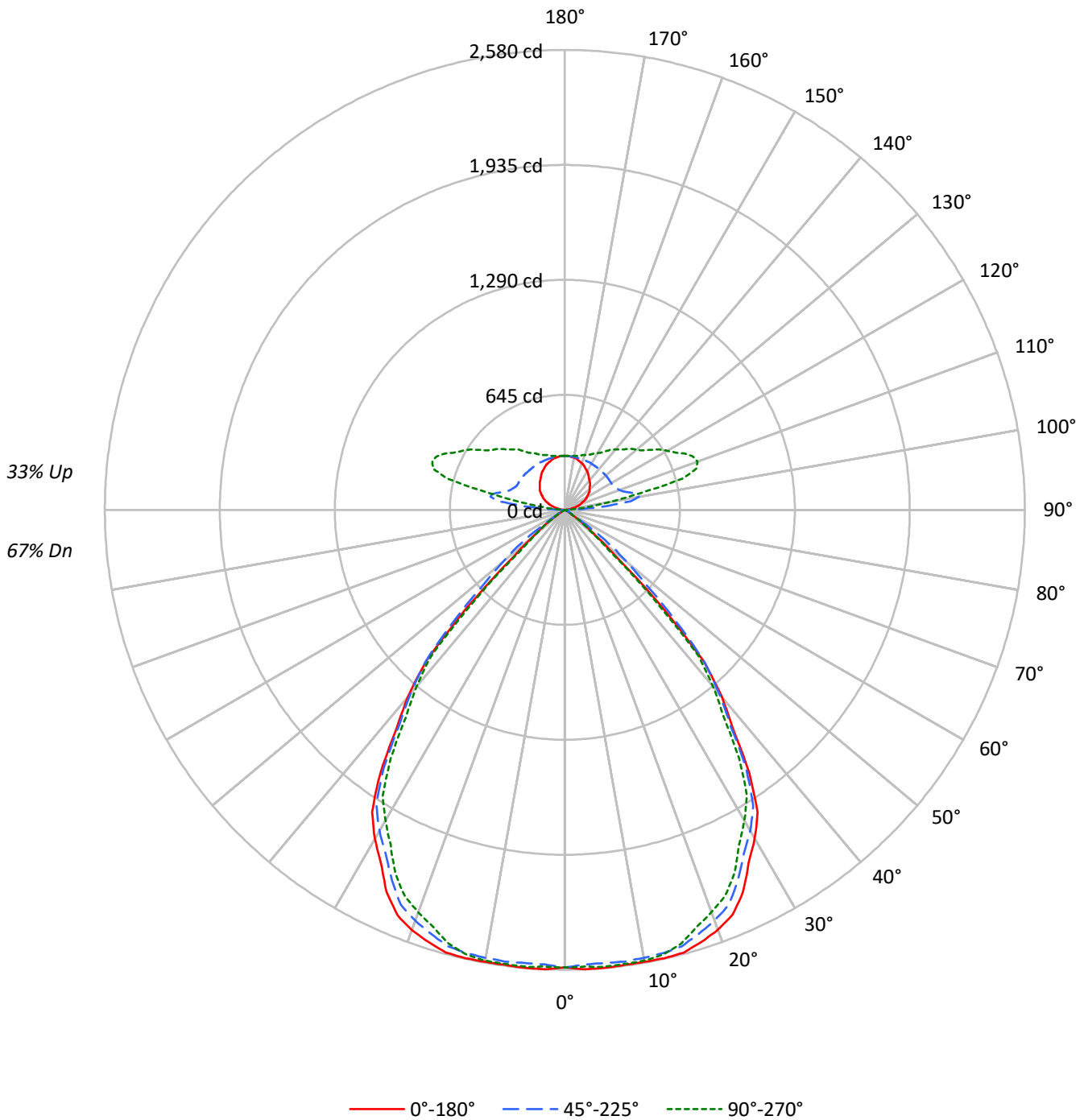
Lumens per Lamp: N/A
Luminaire Lumens: 5722.6 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 52.9
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



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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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	104	101	98	95	98	95	93	91	85	83	82	76	75	74	68	67	66	62
2	97	91	87	82	92	87	83	79	78	75	72	70	68	66	63	61	60	56
3	91	83	77	72	86	79	74	70	72	68	64	65	62	59	59	56	54	51
4	85	76	69	64	80	72	66	62	66	61	58	60	56	53	54	52	49	47
5	79	69	62	57	75	66	60	55	60	56	52	55	51	48	50	47	45	43
6	74	63	56	51	70	61	54	50	56	51	47	51	47	44	47	44	41	39
7	69	58	51	46	65	56	49	45	51	46	43	47	43	40	44	40	38	36
8	65	54	47	42	61	52	45	41	48	42	39	44	40	37	41	37	35	33
9	61	50	43	38	58	48	42	37	44	39	36	41	37	34	38	34	32	30
10	57	46	39	35	54	44	38	34	41	36	33	38	34	31	36	32	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	41445	41445	41445
5°	41806	41353	41697
10°	42210	41832	42101
15°	42987	42360	42103
20°	43096	42139	41278
25°	42131	40880	40075
30°	39716	38766	37528
35°	35581	34956	33553
40°	28865	28378	27265
45°	17568	19918	15767
50°	5604	11258	5122
55°	1948	4087	2004
60°	155	1179	32
65°	0	73	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°	245.3	4.3
10°-20°	717.4	12.5
20°-30°	1057.4	18.5
30°-40°	1082.8	18.9
40°-50°	623.9	10.9
50°-60°	109.3	1.9
60°-70°	4.2	0.1
70°-80°	0.0	0.0
80°-90°	0.5	0.0
90°-100°	120.7	2.1
100°-110°	382.8	6.7
110°-120°	375.4	6.6
120°-130°	305.5	5.3
130°-140°	249.1	4.4
140°-150°	194.2	3.4
150°-160°	139.9	2.4
160°-170°	85.5	1.5
170°-180°	28.9	0.5
0°-30°	2020.0	35.3
0°-40°	3102.8	54.2
0°-60°	3836.1	67.0
0°-90°	3840.7	67.1
90°-120°	879.0	15.4
90°-150°	1627.7	28.4
90°-180°	1882.0	32.9
0°-180°	5722.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2567	2567	2567	2567	2567	
5°	2579	2574	2552	2582	2573	246
15°	2572	2592	2534	2534	2519	724
25°	2365	2383	2295	2274	2250	1079
35°	1805	1795	1774	1730	1702	1108
45°	769	861	872	829	690	589
55°	69	83	145	79	71	77
65°	0	1	2	1	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	1	3	3	3	1
95°	16	49	219	81	52	19
105°	67	94	377	719	689	70
115°	119	142	305	633	745	118
125°	165	184	300	497	585	147
135°	199	219	298	427	481	154
145°	232	250	298	369	401	146
155°	265	274	299	329	342	122
165°	289	292	300	312	314	81
175°	302	301	302	304	303	29
180°	303	303	303	303	303	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2566.9	2566.9	2566.9	2566.9	2566.9
2.5°	2580.0	2573.2	2553.1	2573.6	2564.6
5°	2579.4	2573.8	2551.5	2582.1	2572.7
7.5°	2574.6	2573.3	2556.1	2580.1	2569.4
10°	2574.6	2579.3	2551.5	2576.3	2567.9
12.5°	2576.1	2586.9	2546.9	2566.2	2554.0
15°	2571.7	2592.4	2534.2	2533.9	2518.8
17.5°	2542.9	2567.3	2494.0	2474.1	2454.0
20°	2508.2	2536.5	2452.5	2424.1	2402.4
22.5°	2458.2	2485.7	2400.1	2367.9	2346.3
25°	2364.9	2382.8	2294.7	2274.0	2249.5
27.5°	2232.6	2243.1	2174.7	2138.8	2116.8
30°	2130.3	2137.8	2079.3	2040.2	2012.9
32.5°	2011.8	2008.8	1966.2	1926.4	1900.6
35°	1805.2	1794.9	1773.5	1730.5	1702.3
37.5°	1551.1	1549.2	1528.0	1490.8	1461.3
40°	1369.5	1367.6	1346.4	1313.3	1293.6
42.5°	1149.5	1185.2	1160.3	1119.6	1107.4
45°	769.4	860.6	872.3	828.8	690.5
47.5°	397.0	518.9	607.4	473.1	327.8
50°	223.1	313.4	448.2	253.7	203.9
52.5°	145.4	189.0	312.8	162.0	137.0
55°	69.2	83.4	145.2	78.7	71.2
57.5°	24.8	38.4	63.5	38.9	24.0
60°	4.8	16.1	36.5	11.3	1.0
62.5°	1.7	4.7	21.2	3.0	1.0
65°	0.0	0.9	1.9	0.9	0.0
67.5°	0.0	0.8	0.8	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	0.9	2.9	2.9	2.9
92.5°	5.3	21.2	67.7	22.5	15.8
95°	16.2	48.8	219.2	81.3	52.4
97.5°	30.1	63.3	371.3	232.0	142.4
100°	40.0	71.7	423.1	385.8	250.6
102.5°	50.7	80.9	414.0	566.5	433.6
105°	66.7	93.7	377.4	718.8	689.0
107.5°	82.7	107.7	342.5	734.7	775.0
110°	93.4	117.6	325.0	716.5	791.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	104.1	126.8	315.1	684.9	779.6
115°	119.1	141.5	305.0	633.4	745.3
117.5°	133.8	155.0	301.0	583.9	696.7
120°	143.0	163.5	300.2	553.3	662.3
122.5°	152.1	171.9	300.2	528.8	630.3
125°	164.9	184.4	300.2	496.6	585.2
127.5°	176.1	194.9	300.2	471.7	547.2
130°	183.0	202.5	300.2	457.1	525.1
132.5°	189.8	209.4	299.4	445.5	506.8
135°	199.2	218.7	298.3	427.2	481.3
137.5°	208.3	228.8	298.1	409.8	458.0
140°	214.4	234.9	297.3	397.4	441.2
142.5°	222.1	241.8	298.1	385.2	426.0
145°	232.5	250.2	298.3	368.6	401.2
147.5°	243.0	258.1	298.5	354.0	380.6
150°	250.6	262.8	299.2	345.5	366.9
152.5°	256.7	267.4	299.2	338.5	356.2
155°	264.9	274.3	299.2	329.1	342.1
157.5°	273.7	280.0	300.2	323.3	332.2
160°	278.3	283.9	300.2	319.4	326.9
162.5°	282.9	287.0	300.2	316.3	321.5
165°	288.8	291.6	300.2	311.7	314.5
167.5°	294.3	295.0	301.2	308.5	310.9
170°	297.3	297.3	301.2	306.9	307.8
172.5°	298.9	299.6	301.2	305.4	305.5
175°	302.1	301.2	302.1	304.0	303.1
177.5°	303.1	302.3	302.3	303.8	302.3
180°	303.1	303.1	303.1	303.1	303.1

(END OF REPORT)