

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: P559631

Luminaire Tested: **DL2-BB-M-050U-100D-935-UNV-STD-W-4**

Issue Date: 3/5/2020

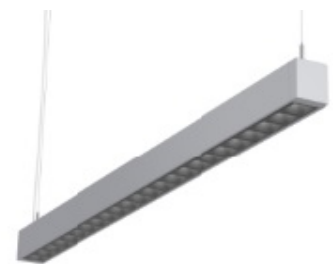
Test Information

Test Method: LM-79-08
Report Number: P559631
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-935-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

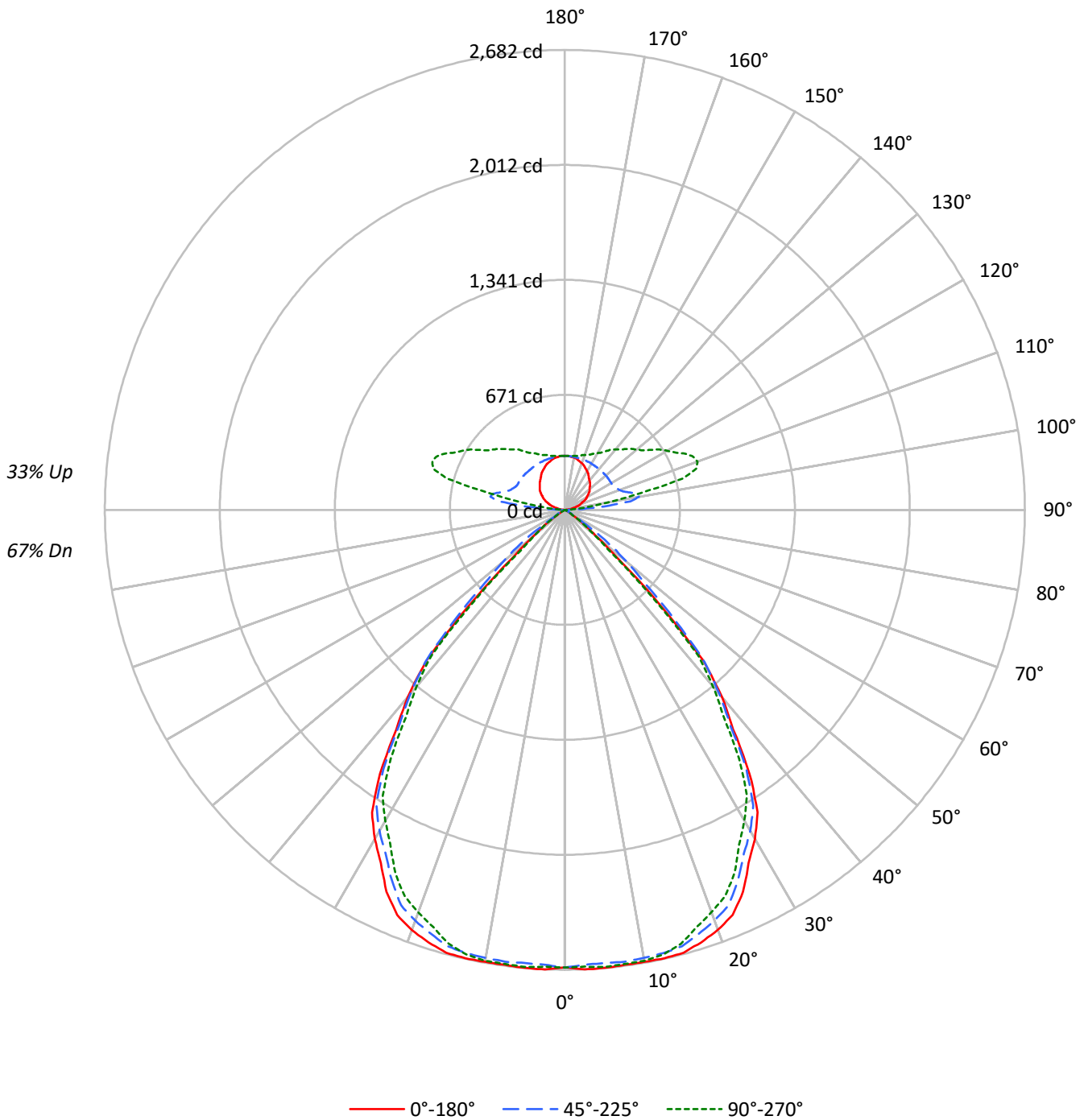
Lumens per Lamp: N/A
Luminaire Lumens: 5949.9 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

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°	43092	43092	43092
5°	43467	42997	43353
10°	43888	43494	43773
15°	44695	44043	43776
20°	44809	43812	42919
25°	43805	42505	41667
30°	41294	40306	39019
35°	36995	36344	34885
40°	30011	29506	28346
45°	18267	20710	16395
50°	5827	11705	5325
55°	2027	4251	2083
60°	161	1227	32
65°	0	76	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°	255.1	4.3
10°-20°	745.9	12.5
20°-30°	1099.4	18.5
30°-40°	1125.8	18.9
40°-50°	648.7	10.9
50°-60°	113.6	1.9
60°-70°	4.4	0.1
70°-80°	0.0	0.0
80°-90°	0.5	0.0
90°-100°	125.5	2.1
100°-110°	398.1	6.7
110°-120°	390.3	6.6
120°-130°	317.6	5.3
130°-140°	259.0	4.4
140°-150°	201.9	3.4
150°-160°	145.5	2.4
160°-170°	88.9	1.5
170°-180°	30.0	0.5
0°-30°	2100.3	35.3
0°-40°	3226.1	54.2
0°-60°	3988.5	67.0
0°-90°	3993.3	67.1
90°-120°	913.9	15.4
90°-150°	1692.4	28.4
90°-180°	1957.0	32.9
0°-180°	5949.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2669	2669	2669	2669	2669	
5°	2682	2676	2653	2685	2675	256
15°	2674	2695	2635	2634	2619	753
25°	2459	2478	2386	2364	2339	1122
35°	1877	1866	1844	1799	1770	1152
45°	800	895	907	862	718	612
55°	72	87	151	82	74	80
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°	17	51	228	84	54	19
105°	69	98	392	747	716	73
115°	124	147	317	659	775	122
125°	171	192	312	516	608	153
135°	207	227	310	444	500	160
145°	242	260	310	383	417	151
155°	276	285	311	342	356	127
165°	300	303	312	324	327	85
175°	314	313	314	316	315	30
180°	315	315	315	315	315	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2668.9	2668.9	2668.9	2668.9	2668.9
2.5°	2682.5	2675.4	2654.5	2675.9	2666.5
5°	2681.9	2676.0	2652.9	2684.6	2674.9
7.5°	2676.9	2675.5	2657.7	2682.6	2671.5
10°	2676.9	2681.8	2652.9	2678.7	2669.9
12.5°	2678.5	2689.6	2648.1	2668.2	2655.5
15°	2673.9	2695.4	2634.9	2634.5	2618.9
17.5°	2643.9	2669.3	2593.1	2572.4	2551.5
20°	2607.9	2637.2	2549.9	2520.4	2497.9
22.5°	2555.9	2584.4	2495.5	2462.0	2439.5
25°	2458.9	2477.5	2385.9	2364.3	2338.9
27.5°	2321.3	2332.2	2261.1	2223.8	2200.9
30°	2214.9	2222.7	2161.9	2121.2	2092.9
32.5°	2091.7	2088.6	2044.3	2002.9	1976.1
35°	1876.9	1866.1	1843.9	1799.2	1769.9
37.5°	1612.7	1610.8	1588.7	1550.0	1519.3
40°	1423.9	1422.0	1399.9	1365.5	1344.9
42.5°	1195.1	1232.3	1206.3	1164.1	1151.3
45°	800.0	894.8	907.0	861.7	718.0
47.5°	412.8	539.5	631.6	491.9	340.8
50°	232.0	325.9	466.0	263.8	212.0
52.5°	151.2	196.6	325.2	168.4	142.4
55°	72.0	86.7	151.0	81.8	74.0
57.5°	25.8	39.9	66.0	40.4	25.0
60°	5.0	16.7	38.0	11.8	1.0
62.5°	1.8	4.9	22.0	3.2	1.0
65°	0.0	1.0	2.0	1.0	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	1.0	3.0	3.0	3.0
92.5°	5.5	22.0	70.4	23.4	16.4
95°	16.8	50.8	227.9	84.5	54.5
97.5°	31.3	65.8	386.0	241.2	148.0
100°	41.6	74.6	439.9	401.1	260.6
102.5°	52.7	84.1	430.4	589.0	450.8
105°	69.4	97.5	392.4	747.4	716.4
107.5°	86.0	112.0	356.1	763.9	805.8
110°	97.1	122.3	337.9	744.9	822.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	108.2	131.8	327.6	712.1	810.5
115°	123.9	147.1	317.1	658.6	774.9
117.5°	139.1	161.2	312.9	607.1	724.3
120°	148.6	169.9	312.1	575.3	688.7
122.5°	158.1	178.7	312.1	549.8	655.4
125°	171.4	191.8	312.1	516.4	608.4
127.5°	183.1	202.7	312.1	490.5	569.0
130°	190.2	210.6	312.1	475.2	546.0
132.5°	197.4	217.7	311.3	463.2	526.9
135°	207.1	227.4	310.1	444.2	500.4
137.5°	216.6	237.9	309.9	426.0	476.2
140°	222.9	244.3	309.2	413.2	458.8
142.5°	230.9	251.4	309.9	400.5	442.9
145°	241.8	260.2	310.1	383.2	417.2
147.5°	252.7	268.4	310.3	368.0	395.8
150°	260.6	273.2	311.1	359.2	381.5
152.5°	266.9	278.0	311.1	352.0	370.4
155°	275.5	285.2	311.1	342.2	355.7
157.5°	284.6	291.2	312.1	336.1	345.4
160°	289.3	295.1	312.1	332.1	339.9
162.5°	294.1	298.4	312.1	328.9	334.3
165°	300.2	303.1	312.1	324.1	327.0
167.5°	306.0	306.8	313.1	320.7	323.2
170°	309.2	309.2	313.1	319.1	320.1
172.5°	310.7	311.5	313.1	317.5	317.7
175°	314.1	313.1	314.1	316.1	315.1
177.5°	315.1	314.3	314.3	315.9	314.3
180°	315.1	315.1	315.1	315.1	315.1

(END OF REPORT)