

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: P559619

Luminaire Tested: **DL2-BB-M-025U-100D-935-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559619
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-9, 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-025U-100D-935-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

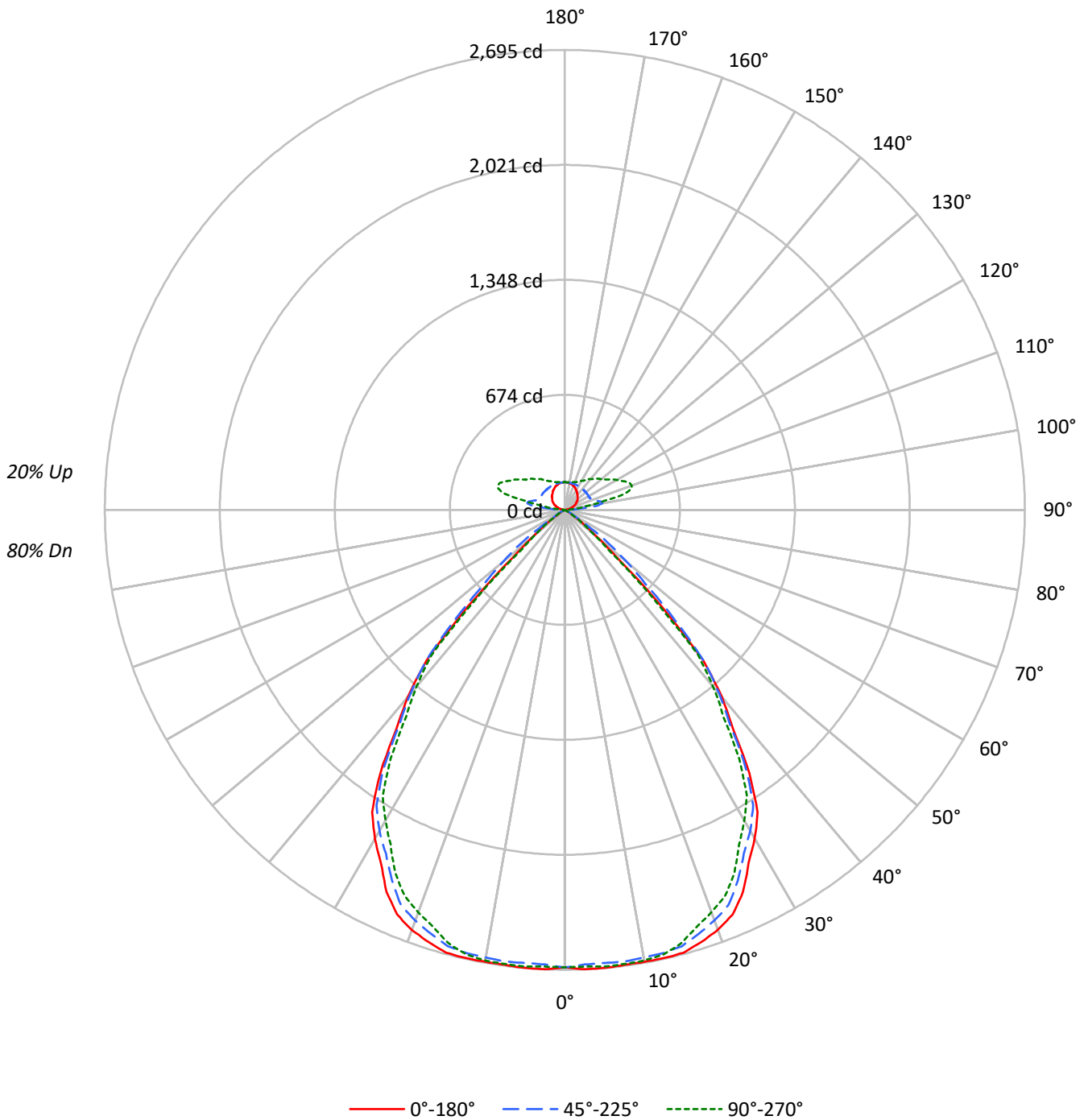
Lumens per Lamp: N/A
Luminaire Lumens: 5014.2 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.6
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	84	84	84	80
1	108	104	101	99	103	100	98	95	92	91	89	85	84	83	79	78	77	74
2	101	95	90	86	97	92	87	84	85	82	79	79	77	74	74	72	70	67
3	94	87	81	76	91	84	79	74	78	74	71	73	70	67	68	66	64	61
4	88	79	73	68	85	77	71	67	72	67	64	68	64	61	64	60	58	56
5	82	73	66	61	79	71	64	60	66	61	57	63	58	55	59	56	53	51
6	77	67	60	55	74	65	59	54	61	56	52	58	54	50	55	51	48	46
7	72	62	55	50	70	60	54	49	57	51	47	54	49	46	51	47	44	42
8	68	57	50	46	66	56	49	45	53	47	43	50	46	42	48	44	41	39
9	64	53	46	42	62	52	45	41	49	44	40	47	42	39	45	41	38	36
10	60	49	43	38	58	48	42	38	46	40	37	44	39	36	42	38	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	43285	43285	43285
5°	43663	43190	43548
10°	44086	43689	43970
15°	44896	44242	43973
20°	45010	44010	43113
25°	44003	42697	41854
30°	41480	40488	39194
35°	37162	36508	35043
40°	30148	29640	28475
45°	18349	20801	16468
50°	5853	11758	5348
55°	2035	4270	2092
60°	161	1234	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°	256.2	5.1
10°-20°	749.2	14.9
20°-30°	1104.3	22.0
30°-40°	1130.9	22.6
40°-50°	651.7	13.0
50°-60°	114.1	2.3
60°-70°	4.4	0.1
70°-80°	0.0	0.0
80°-90°	0.5	0.0
90°-100°	65.4	1.3
100°-110°	203.4	4.1
110°-120°	199.0	4.0
120°-130°	162.5	3.2
130°-140°	132.9	2.7
140°-150°	103.7	2.1
150°-160°	74.9	1.5
160°-170°	45.8	0.9
170°-180°	15.4	0.3
0°-30°	2109.8	42.1
0°-40°	3240.6	64.6
0°-60°	4006.4	79.9
0°-90°	4011.3	80.0
90°-120°	467.8	9.3
90°-150°	867.0	17.3
90°-180°	1003.0	20.0
0°-180°	5014.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2681	2681	2681	2681	2681	
5°	2694	2688	2665	2697	2687	257
15°	2686	2708	2647	2646	2631	756
25°	2470	2489	2397	2375	2349	1127
35°	1885	1875	1852	1807	1778	1157
45°	804	899	911	866	721	615
55°	72	87	152	82	74	81
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	0
95°	9	26	120	44	29	10
105°	36	50	200	382	365	38
115°	64	75	163	335	393	63
125°	88	98	161	264	309	78
135°	106	118	160	228	256	82
145°	124	134	160	197	214	78
155°	142	147	161	177	182	65
165°	156	157	162	167	168	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°	2680.9	2680.9	2680.9	2680.9	2680.9
2.5°	2694.6	2687.5	2666.5	2687.9	2678.5
5°	2694.0	2688.1	2664.8	2696.8	2686.9
7.5°	2689.0	2687.6	2669.7	2694.7	2683.5
10°	2689.0	2693.9	2664.8	2690.8	2681.9
12.5°	2690.6	2701.8	2660.0	2680.2	2667.5
15°	2685.9	2707.5	2646.8	2646.4	2630.7
17.5°	2655.8	2681.3	2604.8	2584.0	2563.0
20°	2619.6	2649.1	2561.4	2531.7	2509.2
22.5°	2567.4	2596.1	2506.7	2473.1	2450.5
25°	2470.0	2488.6	2396.7	2375.0	2349.4
27.5°	2331.8	2342.8	2271.3	2233.8	2210.8
30°	2224.9	2232.7	2171.7	2130.8	2102.3
32.5°	2101.1	2098.0	2053.5	2011.9	1985.0
35°	1885.4	1874.6	1852.2	1807.4	1777.9
37.5°	1620.0	1618.0	1595.9	1557.0	1526.2
40°	1430.4	1428.4	1406.3	1371.6	1351.0
42.5°	1200.5	1237.9	1211.8	1169.3	1156.5
45°	803.6	898.8	911.0	865.6	721.2
47.5°	414.6	541.9	634.4	494.2	342.3
50°	233.0	327.3	468.1	265.0	212.9
52.5°	151.9	197.4	326.7	169.2	143.0
55°	72.3	87.1	151.7	82.2	74.3
57.5°	25.9	40.1	66.3	40.6	25.1
60°	5.0	16.8	38.2	11.8	1.0
62.5°	1.8	5.0	22.1	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°	3.2	11.1	37.9	12.4	10.1
95°	8.9	26.4	120.0	44.3	28.8
97.5°	16.3	34.3	198.7	123.7	77.9
100°	21.8	38.3	224.1	209.6	139.8
102.5°	27.4	43.1	219.3	299.3	235.0
105°	35.7	50.2	200.3	382.3	364.9
107.5°	44.0	57.6	182.0	388.7	407.9
110°	49.6	63.1	172.5	379.6	417.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	55.1	67.9	167.8	363.2	411.1
115°	63.5	75.1	162.6	335.4	392.6
117.5°	71.6	82.2	160.4	308.9	367.4
120°	76.3	87.0	159.6	293.8	350.0
122.5°	81.1	91.8	160.4	281.0	332.5
125°	88.2	97.9	160.6	263.8	309.3
127.5°	94.0	103.9	160.6	250.9	289.7
130°	97.2	107.8	160.6	243.7	278.6
132.5°	101.1	111.8	159.8	237.3	269.9
135°	106.1	117.7	159.6	227.7	255.8
137.5°	111.8	122.5	159.6	218.1	243.7
140°	115.0	125.7	159.6	211.7	235.0
142.5°	119.0	128.9	159.6	205.3	226.2
145°	123.9	133.6	159.6	196.7	214.2
147.5°	129.9	138.2	160.6	188.7	202.5
150°	133.8	140.6	160.6	184.7	195.3
152.5°	137.0	143.0	160.6	180.7	189.8
155°	141.8	146.6	160.6	176.6	182.4
157.5°	146.5	150.2	160.6	173.0	176.7
160°	149.7	152.6	160.6	170.6	173.5
162.5°	152.1	154.2	160.6	169.0	171.1
165°	155.7	156.6	161.6	166.6	168.5
167.5°	157.8	158.0	160.6	165.2	166.2
170°	158.6	159.6	160.6	163.6	164.6
172.5°	160.2	160.4	161.4	162.8	163.0
175°	161.6	161.6	161.6	162.6	161.6
177.5°	161.6	161.6	161.6	161.6	161.6
180°	161.6	161.6	161.6	161.6	161.6

(END OF REPORT)