

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: P559667

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

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559667
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-12, 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-100U-100D-935-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

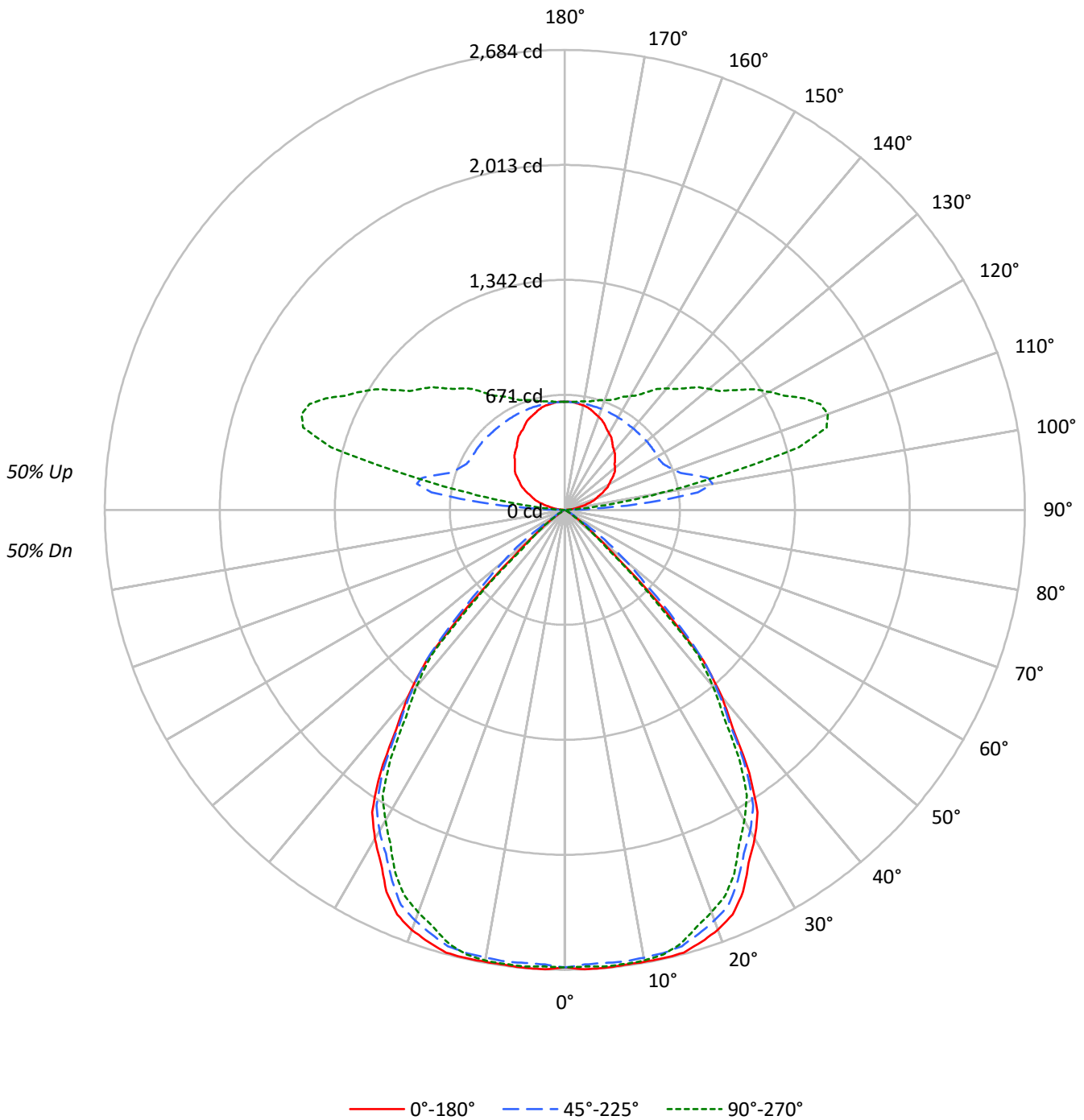
Lumens per Lamp: N/A
Luminaire Lumens: 7923.2 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 70.7
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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	57	57	57	50
1	100	96	93	90	92	89	87	84	76	74	73	64	63	62	53	52	52	46
2	93	87	82	77	86	81	76	73	69	66	64	59	57	55	49	48	47	42
3	86	78	72	67	80	73	68	63	63	59	56	54	51	49	46	44	42	39
4	80	71	64	59	74	66	60	56	58	53	50	50	47	44	42	40	38	35
5	74	64	57	52	69	60	54	49	53	48	44	46	42	40	39	37	35	32
6	69	58	51	46	64	55	49	44	48	44	40	42	39	36	36	34	32	29
7	64	53	46	41	60	50	44	40	44	40	36	39	35	33	34	31	29	27
8	60	49	42	37	56	46	40	36	41	36	33	36	32	30	32	29	27	25
9	56	45	38	34	52	43	37	32	38	33	30	34	30	27	29	27	25	23
10	53	42	35	31	49	40	34	30	35	31	27	31	28	25	28	25	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	43109	43109	43109
5°	43485	43015	43371
10°	43906	43512	43791
15°	44714	44062	43794
20°	44828	43831	42936
25°	43823	42523	41685
30°	41311	40322	39036
35°	37010	36360	34901
40°	30024	29518	28359
45°	18274	20717	16401
50°	5830	11710	5328
55°	2027	4253	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°	255.2	3.2
10°-20°	746.2	9.4
20°-30°	1099.8	13.9
30°-40°	1126.3	14.2
40°-50°	649.0	8.2
50°-60°	113.7	1.4
60°-70°	4.4	0.1
70°-80°	0.0	0.0
80°-90°	1.5	0.0
90°-100°	263.6	3.3
100°-110°	797.1	10.1
110°-120°	778.2	9.8
120°-130°	635.9	8.0
130°-140°	519.0	6.6
140°-150°	404.0	5.1
150°-160°	291.3	3.7
160°-170°	178.3	2.3
170°-180°	60.2	0.8
0°-30°	2101.2	26.5
0°-40°	3227.5	40.7
0°-60°	3990.2	50.4
0°-90°	3996.0	50.4
90°-120°	1838.8	23.2
90°-150°	3397.8	42.9
90°-180°	3928.0	49.6
0°-180°	7923.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2670	2670	2670	2670	2670	
5°	2683	2677	2654	2686	2676	256
15°	2675	2696	2636	2636	2620	753
25°	2460	2478	2387	2365	2340	1123
35°	1878	1867	1845	1800	1771	1152
45°	800	895	907	862	718	613
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	2	12	7	6	2
95°	33	103	497	184	116	39
105°	139	195	783	1486	1413	146
115°	247	294	633	1310	1539	244
125°	345	382	624	1034	1218	306
135°	413	457	620	892	1004	320
145°	482	518	620	767	839	302
155°	550	568	624	688	714	253
165°	601	608	627	651	659	169
175°	629	629	630	635	633	60
180°	631	631	631	631	631	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2670.0	2670.0	2670.0	2670.0	2670.0
2.5°	2683.6	2676.6	2655.6	2677.0	2667.6
5°	2683.0	2677.1	2654.0	2685.8	2676.0
7.5°	2678.0	2676.6	2658.8	2683.8	2672.6
10°	2678.0	2682.9	2654.0	2679.8	2671.0
12.5°	2679.6	2690.8	2649.2	2669.3	2656.6
15°	2675.0	2696.5	2636.0	2635.6	2620.0
17.5°	2645.0	2670.4	2594.2	2573.5	2552.6
20°	2609.0	2638.3	2551.0	2521.4	2498.9
22.5°	2557.0	2585.5	2496.5	2463.0	2440.5
25°	2459.9	2478.5	2386.9	2365.3	2339.9
27.5°	2322.3	2333.2	2262.1	2224.7	2201.8
30°	2215.8	2223.7	2162.8	2122.2	2093.8
32.5°	2092.6	2089.5	2045.2	2003.8	1977.0
35°	1877.7	1867.0	1844.7	1800.0	1770.7
37.5°	1613.4	1611.5	1589.4	1550.7	1520.0
40°	1424.5	1422.6	1400.5	1366.1	1345.5
42.5°	1195.7	1232.8	1206.9	1164.6	1151.8
45°	800.3	895.2	907.3	862.1	718.3
47.5°	413.0	539.7	631.8	492.2	340.9
50°	232.1	326.0	466.2	263.9	212.1
52.5°	151.3	196.6	325.3	168.5	142.5
55°	72.0	86.7	151.1	81.9	74.0
57.5°	25.8	39.9	66.0	40.5	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	0.4	2.4	1.4	1.2
90°	0.0	1.9	11.9	6.9	5.9
92.5°	11.1	44.8	160.9	53.4	38.4
95°	32.7	103.4	497.3	183.7	115.9
97.5°	63.2	131.6	783.8	518.7	315.8
100°	82.2	149.1	875.8	846.7	568.7
102.5°	103.6	168.1	856.8	1187.5	946.7
105°	138.7	194.9	782.7	1486.4	1412.7
107.5°	172.0	225.6	711.3	1515.9	1601.2
110°	194.2	245.5	675.7	1478.7	1633.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	215.6	265.4	654.3	1416.2	1612.3
115°	246.7	294.1	633.1	1309.9	1538.6
117.5°	277.6	322.5	625.5	1210.4	1444.4
120°	298.2	340.8	623.1	1152.3	1377.1
122.5°	317.2	357.5	623.1	1101.2	1308.9
125°	344.8	382.5	624.1	1034.5	1217.6
127.5°	367.2	406.3	623.1	984.1	1140.3
130°	381.4	422.1	623.1	955.3	1096.7
132.5°	394.1	435.6	622.4	928.9	1059.5
135°	413.1	456.7	620.2	892.2	1003.6
137.5°	434.3	475.8	620.2	853.0	956.2
140°	447.8	488.5	620.2	827.5	925.3
142.5°	461.3	500.4	619.4	804.2	889.6
145°	482.5	518.3	620.2	767.4	839.1
147.5°	503.7	534.1	621.4	737.1	792.2
150°	517.1	545.2	622.2	720.3	766.8
152.5°	529.8	554.8	622.9	705.8	743.8
155°	549.8	568.2	624.1	688.1	714.3
157.5°	567.3	582.2	625.3	675.1	693.3
160°	577.6	590.2	626.1	667.0	680.6
162.5°	587.9	597.4	626.9	659.9	671.1
165°	601.4	608.1	627.1	651.1	658.8
167.5°	612.8	616.3	628.3	644.2	647.5
170°	619.2	621.1	629.1	641.0	642.0
172.5°	623.1	624.3	629.1	637.8	638.0
175°	629.1	629.1	630.1	635.0	633.1
177.5°	631.9	631.1	630.3	632.6	631.1
180°	631.1	631.1	631.1	631.1	631.1

(END OF REPORT)