

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: P559668

Luminaire Tested: **DL2-BB-M-100U-100D-940-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559668
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-940-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

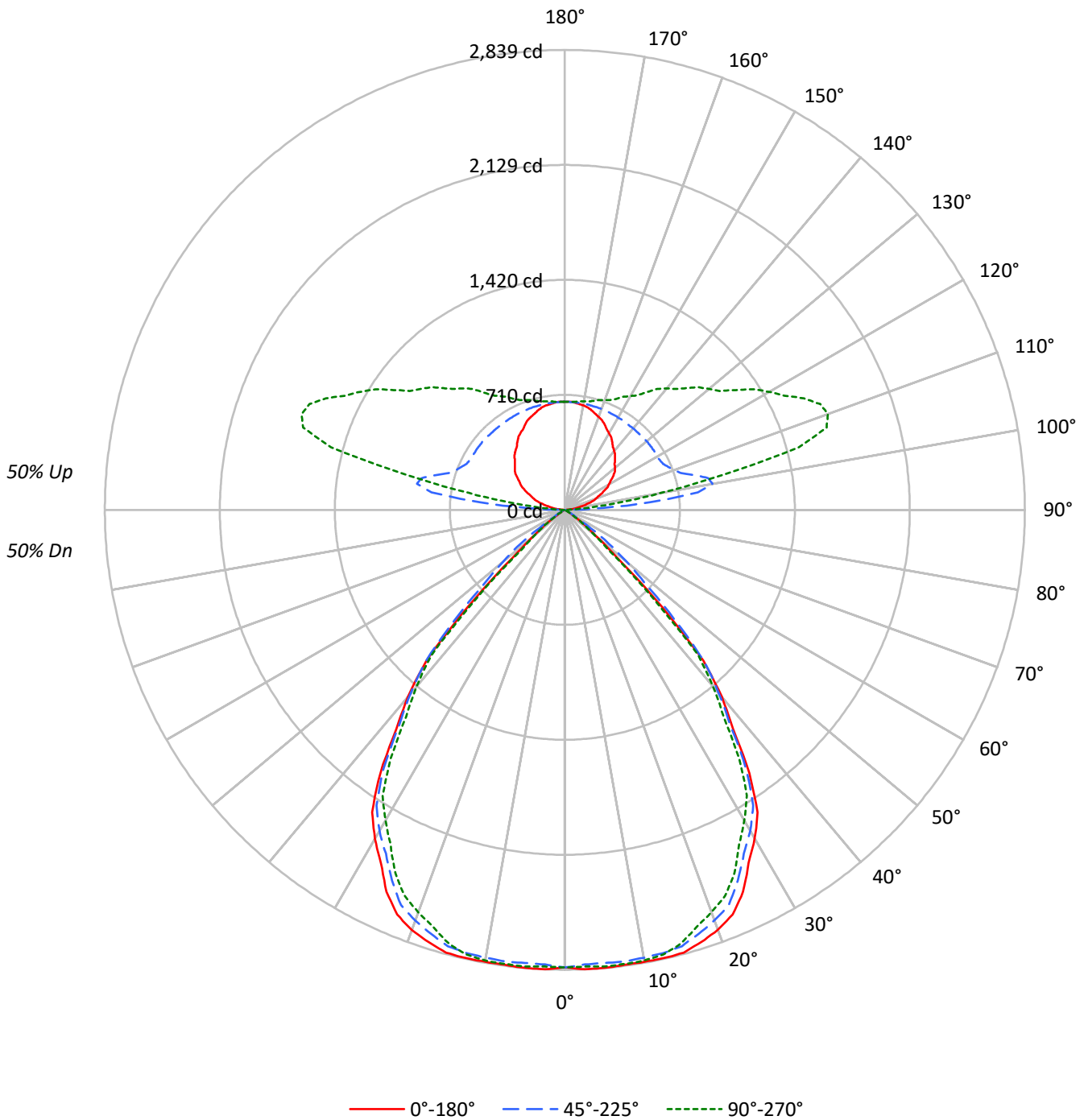
Lumens per Lamp: N/A
Luminaire Lumens: 8380.9 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

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



TEST NUMBER: P559668
CATALOG NUMBER: DL2-BB-M-100U-100D-940-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P559668

CATALOG NUMBER: DL2-BB-M-100U-100D-940-UNV-STD-W-4

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	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°	45601	45601	45601
5°	45997	45499	45877
10°	46442	46025	46321
15°	47296	46608	46323
20°	47417	46362	45417
25°	46355	44979	44094
30°	43697	42653	41290
35°	39149	38461	36918
40°	31759	31223	29997
45°	19329	21916	17349
50°	6167	12386	5634
55°	2145	4498	2204
60°	171	1298	36
65°	0	80	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P559668

CATALOG NUMBER: DL2-BB-M-100U-100D-940-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.9	3.2
10°-20°	789.3	9.4
20°-30°	1163.4	13.9
30°-40°	1191.4	14.2
40°-50°	686.5	8.2
50°-60°	120.2	1.4
60°-70°	4.6	0.1
70°-80°	0.0	0.0
80°-90°	1.5	0.0
90°-100°	278.8	3.3
100°-110°	843.2	10.1
110°-120°	823.1	9.8
120°-130°	672.6	8.0
130°-140°	549.0	6.6
140°-150°	427.4	5.1
150°-160°	308.1	3.7
160°-170°	188.6	2.3
170°-180°	63.7	0.8
0°-30°	2222.5	26.5
0°-40°	3413.9	40.7
0°-60°	4220.6	50.4
0°-90°	4226.8	50.4
90°-120°	1945.0	23.2
90°-150°	3594.0	42.9
90°-180°	4154.0	49.6
0°-180°	8380.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2824	2824	2824	2824	2824	
5°	2838	2832	2807	2841	2831	271
15°	2830	2852	2788	2788	2771	797
25°	2602	2622	2525	2502	2475	1188
35°	1986	1975	1951	1904	1873	1219
45°	846	947	960	912	760	648
55°	76	92	160	87	78	85
65°	0	1	2	1	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	2	13	7	6	2
95°	35	109	526	194	123	41
105°	147	206	828	1572	1494	154
115°	261	311	670	1386	1627	258
125°	365	405	660	1094	1288	324
135°	437	483	656	944	1062	338
145°	510	548	656	812	888	320
155°	582	601	660	728	756	268
165°	636	643	663	689	697	179
175°	665	665	666	672	670	63
180°	668	668	668	668	668	



TEST NUMBER: P559668

CATALOG NUMBER: DL2-BB-M-100U-100D-940-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2824.3	2824.3	2824.3	2824.3	2824.3
2.5°	2838.6	2831.2	2809.0	2831.6	2821.7
5°	2838.0	2831.8	2807.3	2840.9	2830.6
7.5°	2832.7	2831.3	2812.4	2838.8	2827.0
10°	2832.7	2837.9	2807.3	2834.6	2825.3
12.5°	2834.4	2846.2	2802.2	2823.5	2810.1
15°	2829.5	2852.3	2788.3	2787.9	2771.3
17.5°	2797.8	2824.7	2744.0	2722.2	2700.0
20°	2759.7	2790.7	2698.3	2667.1	2643.3
22.5°	2704.7	2734.9	2640.8	2605.3	2581.5
25°	2602.0	2621.7	2524.8	2502.0	2475.1
27.5°	2456.4	2468.0	2392.7	2353.2	2329.0
30°	2343.8	2352.1	2287.8	2244.8	2214.7
32.5°	2213.5	2210.2	2163.3	2119.5	2091.2
35°	1986.2	1974.8	1951.3	1904.0	1873.0
37.5°	1706.6	1704.5	1681.2	1640.3	1607.8
40°	1506.8	1504.8	1481.4	1445.0	1423.2
42.5°	1264.7	1304.0	1276.6	1231.8	1218.4
45°	846.5	946.9	959.8	911.9	759.8
47.5°	436.8	570.9	668.3	520.6	360.6
50°	245.5	344.8	493.1	279.2	224.3
52.5°	160.0	208.0	344.1	178.2	150.7
55°	76.2	91.7	159.8	86.6	78.3
57.5°	27.3	42.2	69.8	42.8	26.5
60°	5.3	17.7	40.2	12.4	1.1
62.5°	1.9	5.2	23.3	3.3	1.1
65°	0.0	1.0	2.1	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	2.5	1.5	1.3
90°	0.0	2.0	12.6	7.3	6.3
92.5°	11.7	47.4	170.2	56.4	40.7
95°	34.6	109.4	526.1	194.3	122.6
97.5°	66.9	139.2	829.1	548.6	334.1
100°	87.0	157.7	926.4	895.6	601.5
102.5°	109.6	177.9	906.2	1256.1	1001.4
105°	146.7	206.1	827.9	1572.2	1494.3
107.5°	181.9	238.7	752.4	1603.5	1693.7
110°	205.4	259.7	714.7	1564.1	1728.0



TEST NUMBER: P559668

CATALOG NUMBER: DL2-BB-M-100U-100D-940-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	228.0	280.7	692.1	1498.0	1705.4
115°	260.9	311.1	669.6	1385.6	1627.4
117.5°	293.6	341.2	661.7	1280.3	1527.9
120°	315.4	360.5	659.1	1218.9	1456.6
122.5°	335.5	378.2	659.1	1164.8	1384.5
125°	364.7	404.6	660.2	1094.2	1287.9
127.5°	388.4	429.8	659.1	1041.0	1206.2
130°	403.5	446.5	659.1	1010.5	1160.1
132.5°	416.9	460.7	658.3	982.5	1120.7
135°	437.0	483.1	656.0	943.7	1061.5
137.5°	459.4	503.3	656.0	902.2	1011.5
140°	473.7	516.7	656.0	875.3	978.8
142.5°	487.9	529.3	655.2	850.7	941.0
145°	510.3	548.3	656.0	811.8	887.6
147.5°	532.8	564.9	657.3	779.7	837.9
150°	547.0	576.7	658.1	761.9	811.1
152.5°	560.4	586.9	658.9	746.6	786.8
155°	581.6	601.1	660.2	727.9	755.6
157.5°	600.0	615.8	661.5	714.1	733.3
160°	610.9	624.3	662.3	705.6	719.9
162.5°	621.8	631.9	663.1	698.0	709.9
165°	636.1	643.3	663.3	688.7	696.9
167.5°	648.2	651.9	664.6	681.4	684.9
170°	655.0	657.0	665.4	678.0	679.1
172.5°	659.1	660.4	665.4	674.7	674.9
175°	665.4	665.4	666.5	671.7	669.6
177.5°	668.4	667.5	666.7	669.2	667.5
180°	667.5	667.5	667.5	667.5	667.5

(END OF REPORT)