

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: P559662

Luminaire Tested: **DL2-BB-M-100U-050D-940-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559662
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-12, G3-2104-222-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DL2-BB-M-100U-050D-940-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

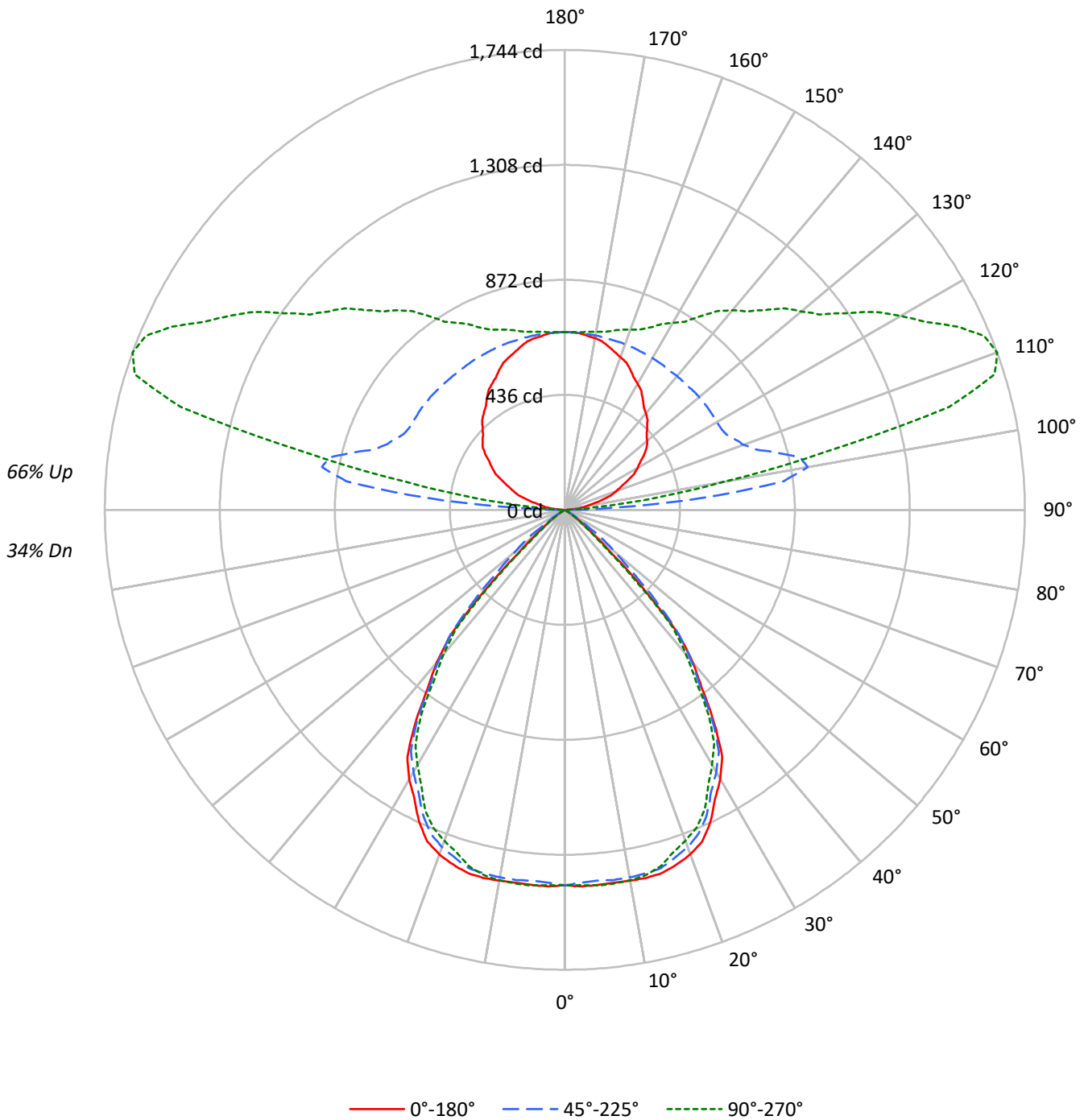
Lumens per Lamp: N/A
Luminaire Lumens: 6318.7 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 50.7
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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	95	92	88	85	86	83	80	78	67	65	63	52	51	50	38	38	37	31
2	88	82	76	72	80	74	70	66	60	57	55	47	46	44	35	34	34	28
3	81	73	67	62	73	67	61	57	54	51	48	43	41	39	33	31	30	26
4	75	66	59	53	68	60	54	50	49	45	42	39	37	35	30	29	27	23
5	69	59	52	47	63	54	48	43	45	40	37	36	33	31	28	26	25	21
6	64	54	46	41	58	49	43	38	41	36	33	33	30	28	26	24	23	19
7	60	49	42	37	54	45	39	34	37	33	30	31	27	25	24	22	21	18
8	56	44	37	33	50	41	35	31	34	30	27	28	25	23	22	20	19	16
9	52	41	34	29	47	38	32	28	32	27	24	26	23	21	21	19	17	15
10	49	38	31	27	44	35	29	25	29	25	22	24	21	19	19	17	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22982	22982	22982
5°	23139	22882	23174
10°	23407	23199	23389
15°	23829	23510	23405
20°	23893	23385	22948
25°	23266	22700	22342
30°	21981	21388	20816
35°	19484	19253	18711
40°	15905	15681	15057
45°	9376	11067	8725
50°	3162	6167	2818
55°	1072	2204	1132
60°	103	649	36
65°	0	42	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°	136.0	2.2
10°-20°	398.1	6.3
20°-30°	585.9	9.3
30°-40°	598.6	9.5
40°-50°	344.1	5.4
50°-60°	60.2	1.0
60°-70°	2.2	0.0
70°-80°	0.0	0.0
80°-90°	1.6	0.0
90°-100°	281.3	4.5
100°-110°	850.9	13.5
110°-120°	830.6	13.1
120°-130°	678.7	10.7
130°-140°	554.0	8.8
140°-150°	431.3	6.8
150°-160°	310.9	4.9
160°-170°	190.3	3.0
170°-180°	64.3	1.0
0°-30°	1120.0	17.7
0°-40°	1718.6	27.2
0°-60°	2122.9	33.6
0°-90°	2126.6	33.7
90°-120°	1962.8	31.1
90°-150°	3626.9	57.4
90°-180°	4192.0	66.3
0°-180°	6318.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1423	1423	1423	1423	1423	
5°	1428	1425	1412	1432	1430	136
15°	1426	1438	1406	1407	1400	402
25°	1306	1317	1274	1260	1254	597
35°	988	994	977	961	949	610
45°	411	478	485	460	382	321
55°	38	45	78	44	40	43
65°	0	0	1	0	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	110	531	196	124	41
105°	148	208	835	1587	1508	155
115°	263	314	676	1398	1642	260
125°	368	408	666	1104	1300	327
135°	441	488	662	952	1071	341
145°	515	553	662	819	896	323
155°	587	606	666	734	762	270
165°	642	649	669	695	703	181
175°	672	672	673	678	676	64
180°	674	674	674	674	674	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1423.4	1423.4	1423.4	1423.4	1423.4
2.5°	1429.4	1426.1	1415.0	1427.6	1424.3
5°	1427.7	1424.6	1411.8	1431.9	1429.8
7.5°	1426.8	1424.3	1415.8	1433.3	1429.2
10°	1427.7	1427.7	1415.0	1430.8	1426.6
12.5°	1429.4	1433.5	1412.4	1424.8	1419.0
15°	1425.6	1438.0	1406.5	1407.4	1400.2
17.5°	1410.1	1426.9	1383.9	1373.7	1362.7
20°	1390.6	1408.2	1361.0	1344.9	1335.6
22.5°	1361.0	1377.8	1328.0	1314.4	1304.3
25°	1306.0	1317.4	1274.2	1260.3	1254.1
27.5°	1234.0	1239.8	1202.3	1187.8	1177.5
30°	1179.0	1179.0	1147.2	1131.0	1116.5
32.5°	1110.4	1107.1	1086.3	1067.5	1053.9
35°	988.5	993.6	976.8	960.7	949.3
37.5°	853.6	858.6	841.4	823.0	815.1
40°	754.6	758.7	744.0	724.7	714.4
42.5°	632.7	655.0	641.6	620.5	606.8
45°	410.6	477.9	484.7	459.7	382.1
47.5°	214.0	284.4	336.1	256.7	179.9
50°	125.9	171.5	245.5	140.1	112.2
52.5°	81.1	100.9	172.7	89.6	75.8
55°	38.1	45.3	78.3	44.4	40.2
57.5°	14.2	21.2	35.3	21.5	15.5
60°	3.2	9.4	20.1	6.2	1.1
62.5°	0.6	2.7	11.6	1.2	0.2
65°	0.0	0.0	1.1	0.0	0.0
67.5°	0.0	0.0	0.0	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	2.1	12.7	7.4	6.3
92.5°	11.8	47.8	171.7	57.0	41.0
95°	34.9	110.4	530.9	196.1	123.7
97.5°	67.5	140.5	836.7	553.6	337.1
100°	87.8	159.1	934.8	903.8	607.0
102.5°	110.6	179.5	914.5	1267.6	1010.5
105°	148.0	208.0	835.4	1586.6	1508.0
107.5°	183.6	240.9	759.3	1618.1	1709.1
110°	207.3	262.1	721.2	1578.4	1743.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	230.1	283.3	698.4	1511.7	1721.0
115°	263.3	314.0	675.7	1398.3	1642.3
117.5°	296.3	344.3	667.7	1292.0	1541.8
120°	318.3	363.8	665.2	1230.0	1469.9
122.5°	338.6	381.6	665.2	1175.5	1397.1
125°	368.0	408.3	666.2	1104.2	1299.6
127.5°	391.9	433.7	665.2	1050.5	1217.2
130°	407.1	450.6	665.2	1019.7	1170.6
132.5°	420.7	464.9	664.3	991.5	1130.9
135°	441.0	487.5	662.0	952.3	1071.2
137.5°	463.6	507.9	662.0	910.5	1020.7
140°	478.0	521.4	662.0	883.3	987.7
142.5°	492.4	534.1	661.1	858.4	949.6
145°	515.0	553.3	662.0	819.2	895.7
147.5°	537.6	570.1	663.3	786.8	845.6
150°	552.0	582.0	664.1	768.9	818.5
152.5°	565.5	592.2	664.9	753.4	794.0
155°	586.9	606.5	666.2	734.5	762.4
157.5°	605.5	621.4	667.5	720.6	740.0
160°	616.5	630.0	668.3	712.0	726.5
162.5°	627.5	637.6	669.2	704.3	716.3
165°	641.9	649.1	669.4	695.0	703.2
167.5°	654.2	657.9	670.7	687.7	691.2
170°	660.9	663.0	671.5	684.2	685.3
172.5°	665.2	666.4	671.5	680.8	681.0
175°	671.5	671.5	672.6	677.8	675.7
177.5°	674.5	673.6	672.8	675.3	673.6
180°	673.6	673.6	673.6	673.6	673.6

(END OF REPORT)