

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: P559637

Luminaire Tested: **DL2-BB-M-075U-050D-935-UNV-STD-W-4**

Issue Date: 3/5/2020

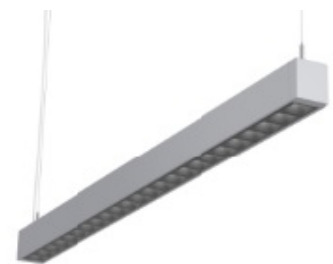
Test Information

Test Method: LM-79-08
Report Number: P559637
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-11, 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-075U-050D-935-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

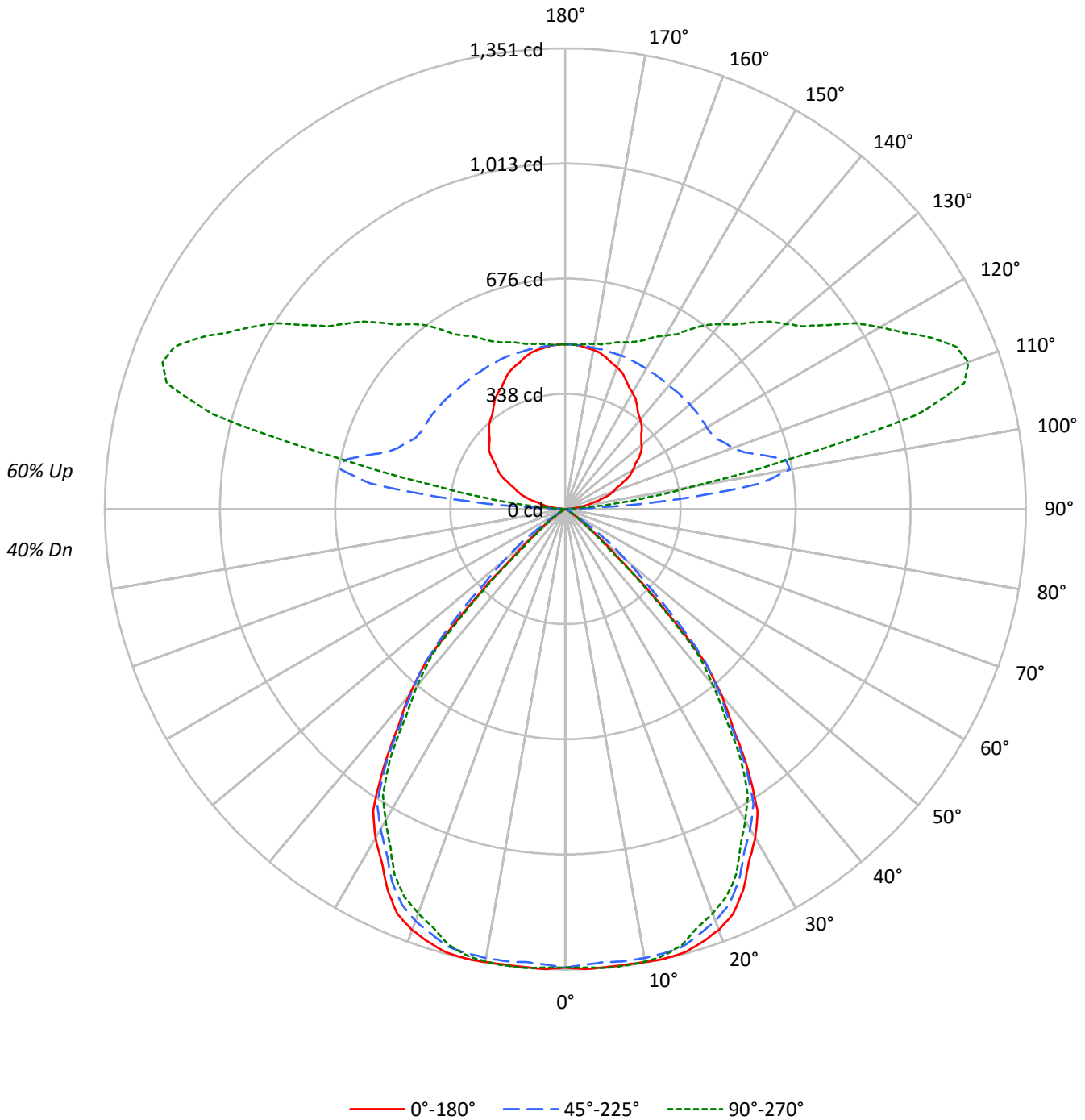
Lumens per Lamp: N/A
Luminaire Lumens: 4998.9 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 41.4
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	50	30	10	0	
RCR																						
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40				
1	97	94	90	87	89	86	83	80	71	69	67	57	56	55	44	43	43	37				
2	90	84	78	74	82	77	72	69	64	61	58	52	50	48	41	40	39	34				
3	83	75	69	64	76	69	64	59	58	54	51	47	45	43	38	36	35	31				
4	77	68	61	56	70	62	57	52	53	48	45	43	41	38	35	33	32	28				
5	71	61	54	49	65	57	50	46	48	43	40	40	37	34	32	30	29	25				
6	66	55	48	43	61	51	45	41	44	39	36	37	33	31	30	28	26	23				
7	61	51	43	38	56	47	41	36	40	36	32	34	30	28	28	26	24	21				
8	57	46	39	35	53	43	37	33	37	32	29	31	28	25	26	24	22	20				
9	54	42	36	31	49	40	34	30	34	30	26	29	26	23	24	22	20	18				
10	50	39	33	28	46	37	31	27	32	27	24	27	24	21	23	20	19	17				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21721	21721	21721
5°	21869	21624	21901
10°	22122	21923	22105
15°	22521	22218	22118
20°	22581	22100	21687
25°	21987	21453	21114
30°	20773	20213	19673
35°	18413	18197	17684
40°	15030	14819	14229
45°	8862	10460	8245
50°	2989	5827	2663
55°	1013	2083	1070
60°	97	614	32
65°	0	38	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°	128.5	2.6
10°-20°	376.3	7.5
20°-30°	553.7	11.1
30°-40°	565.7	11.3
40°-50°	325.2	6.5
50°-60°	56.9	1.1
60°-70°	2.1	0.0
70°-80°	0.0	0.0
80°-90°	0.6	0.0
90°-100°	182.6	3.7
100°-110°	605.5	12.1
110°-120°	600.9	12.0
120°-130°	489.5	9.8
130°-140°	397.8	8.0
140°-150°	308.9	6.2
150°-160°	222.6	4.5
160°-170°	136.3	2.7
170°-180°	46.0	0.9
0°-30°	1058.5	21.2
0°-40°	1624.2	32.5
0°-60°	2006.3	40.1
0°-90°	2009.0	40.2
90°-120°	1389.0	27.8
90°-150°	2585.2	51.7
90°-180°	2990.0	59.8
0°-180°	4998.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1345	1345	1345	1345	1345	
5°	1349	1346	1334	1353	1351	129
15°	1347	1359	1329	1330	1323	380
25°	1234	1245	1204	1191	1185	564
35°	934	939	923	908	897	576
45°	388	452	458	434	361	303
55°	36	43	74	42	38	41
65°	0	0	1	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	1	3	4	4	1
95°	26	77	331	118	79	30
105°	106	151	606	1143	1069	112
115°	189	226	488	1016	1188	187
125°	264	293	479	798	941	235
135°	316	348	475	685	773	245
145°	367	394	474	589	645	230
155°	419	434	477	526	546	193
165°	460	465	479	498	503	130
175°	481	481	482	485	484	46
180°	483	483	483	483	483	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1345.3	1345.3	1345.3	1345.3	1345.3
2.5°	1350.9	1347.7	1337.2	1349.2	1346.1
5°	1349.3	1346.3	1334.2	1353.2	1351.3
7.5°	1348.5	1346.1	1338.0	1354.6	1350.7
10°	1349.3	1349.3	1337.2	1352.2	1348.3
12.5°	1350.9	1354.8	1334.8	1346.5	1341.0
15°	1347.3	1359.0	1329.2	1330.1	1323.2
17.5°	1332.6	1348.5	1307.8	1298.2	1287.8
20°	1314.2	1330.9	1286.2	1271.0	1262.2
22.5°	1286.2	1302.1	1255.0	1242.2	1232.6
25°	1234.2	1245.0	1204.2	1191.1	1185.2
27.5°	1166.2	1171.7	1136.2	1122.6	1112.8
30°	1114.2	1114.2	1084.2	1068.9	1055.2
32.5°	1049.4	1046.3	1026.6	1008.9	996.0
35°	934.2	939.1	923.2	907.9	897.2
37.5°	806.8	811.4	795.1	777.8	770.3
40°	713.1	717.0	703.1	684.9	675.1
42.5°	597.9	619.0	606.3	586.4	573.5
45°	388.1	451.6	458.1	434.4	361.1
47.5°	202.2	268.7	317.7	242.6	170.0
50°	119.0	162.1	232.0	132.4	106.0
52.5°	76.6	95.4	163.2	84.7	71.6
55°	36.0	42.9	74.0	41.9	38.0
57.5°	13.4	20.1	33.4	20.3	14.6
60°	3.0	8.9	19.0	5.9	1.0
62.5°	0.6	2.6	11.0	1.2	0.2
65°	0.0	0.0	1.0	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	0.2	0.6	0.8	0.8
90°	0.0	1.0	3.0	4.0	4.0
92.5°	8.0	30.9	91.0	29.5	24.8
95°	26.0	76.8	331.0	118.1	79.0
97.5°	47.8	101.0	577.7	336.9	213.0
100°	63.0	113.8	668.9	574.5	381.0
102.5°	79.8	129.1	663.3	878.0	663.3
105°	106.0	151.0	605.9	1143.2	1068.9
107.5°	132.8	172.9	550.9	1170.1	1226.6
110°	148.0	188.1	522.9	1143.5	1257.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.0	203.3	506.1	1096.2	1241.8
115°	189.0	226.1	487.9	1015.8	1187.9
117.5°	213.8	246.8	481.3	939.0	1119.5
120°	229.0	261.2	478.9	890.9	1065.9
122.5°	242.6	274.1	478.9	851.4	1013.1
125°	264.0	293.3	478.9	798.1	940.9
127.5°	281.6	310.3	477.7	757.9	879.9
130°	292.0	322.3	476.9	734.4	843.9
132.5°	301.6	332.7	476.1	715.0	813.5
135°	316.0	348.2	474.9	684.9	772.9
137.5°	331.6	362.6	473.7	655.9	733.5
140°	342.0	372.3	472.9	636.5	707.9
142.5°	351.6	381.1	473.7	617.2	680.7
145°	367.0	394.3	473.9	589.2	644.9
147.5°	383.6	406.4	474.1	565.5	606.9
150°	394.0	414.5	474.9	551.7	586.9
152.5°	403.5	423.3	475.7	540.4	568.5
155°	418.9	433.6	476.9	526.4	545.9
157.5°	433.9	445.3	478.1	516.5	530.3
160°	441.9	451.7	478.9	509.2	519.9
162.5°	449.9	457.4	478.9	504.3	512.7
165°	459.9	464.8	478.9	498.0	502.9
167.5°	469.1	471.7	479.9	492.4	494.9
170°	473.9	474.9	479.9	490.0	490.9
172.5°	477.1	478.1	480.7	487.5	487.7
175°	480.9	480.9	481.9	484.9	483.9
177.5°	482.9	482.9	482.1	483.7	482.1
180°	482.9	482.9	482.9	482.9	482.9

(END OF REPORT)