

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: P559629

Luminaire Tested: **DL2-BB-M-050U-075D-940-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559629
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-10, G3-2104-222-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DL2-BB-M-050U-075D-940-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

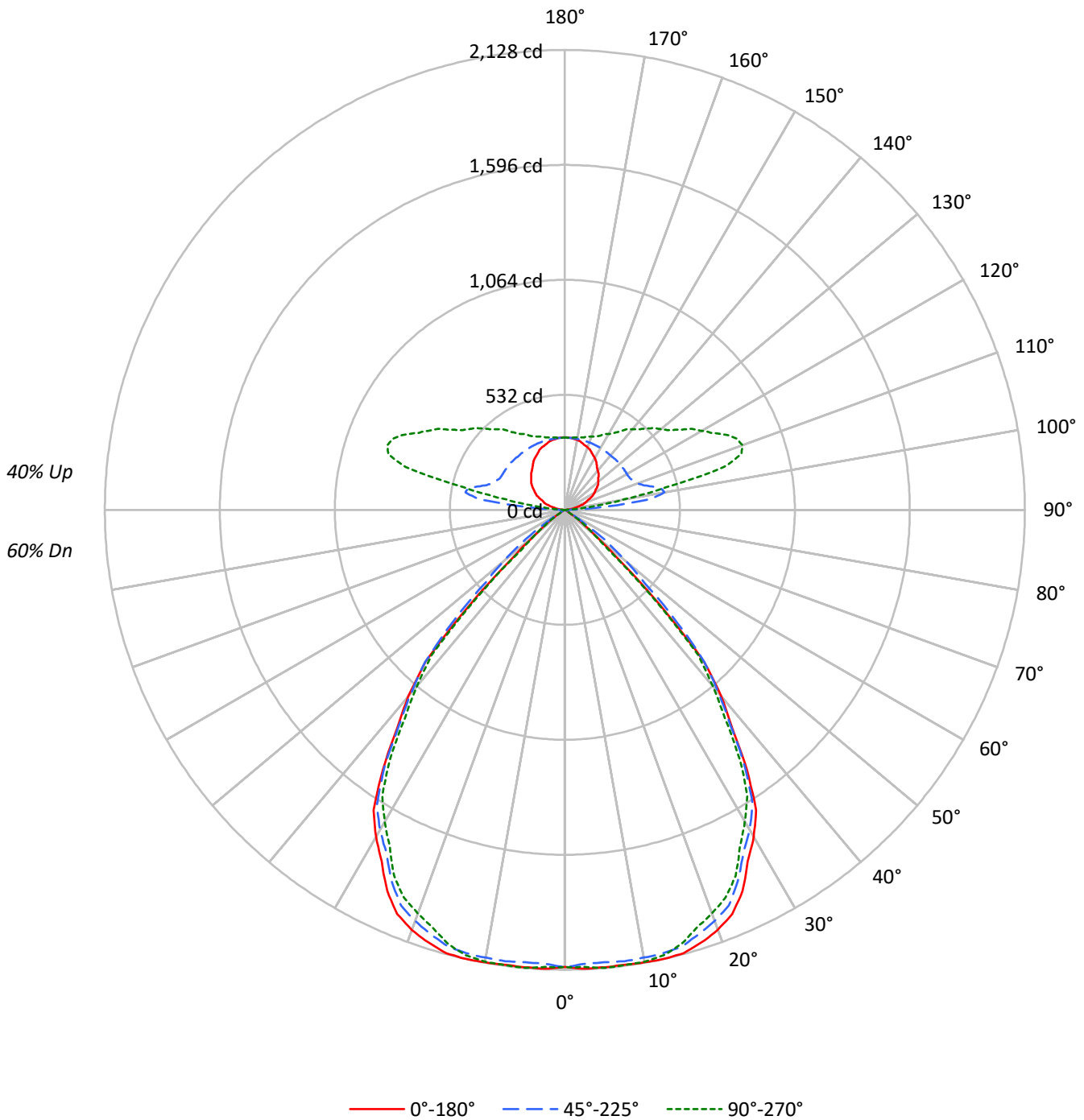
Lumens per Lamp: N/A
Luminaire Lumens: 5242.2 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 42.4
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



TEST NUMBER: P559629
CATALOG NUMBER: DL2-BB-M-050U-075D-940-UNV-STD-W-4

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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66	66	66	66	60	
1	102	99	96	93	96	93	90	88	82	80	78	71	70	69	62	61	60	60	60	60	56	
2	95	89	84	80	89	84	80	76	75	71	69	66	63	61	57	56	55	55	55	55	51	
3	89	81	75	70	83	77	71	67	68	64	61	60	58	55	53	51	50	50	50	50	46	
4	83	74	67	62	78	70	64	59	62	58	54	56	52	50	49	47	45	45	45	45	42	
5	77	67	60	55	72	64	58	53	57	53	49	51	48	45	46	43	41	41	41	41	38	
6	72	61	54	49	68	58	52	47	53	48	44	48	44	41	43	40	37	37	37	37	35	
7	67	56	49	44	63	54	47	43	49	44	40	44	40	37	40	37	34	34	34	34	32	
8	63	52	45	40	59	49	43	39	45	40	36	41	37	34	37	34	31	31	31	31	29	
9	59	48	41	36	56	46	40	35	42	37	33	38	34	31	35	31	29	29	29	29	27	
10	55	44	38	33	52	42	36	32	39	34	31	36	31	29	32	29	27	27	27	27	25	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34161	34161	34161
5°	34428	34050	34480
10°	34861	34497	34810
15°	35490	34959	34781
20°	35534	34788	34153
25°	34657	33770	33298
30°	32578	31868	31058
35°	28915	28685	27829
40°	23714	23311	22443
45°	14139	16627	13269
50°	4413	9226	4175
55°	1669	3277	1669
60°	103	924	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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CATALOG NUMBER: DL2-BB-M-050U-075D-940-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	3.9
10°-20°	592.6	11.3
20°-30°	871.8	16.6
30°-40°	891.0	17.0
40°-50°	513.3	9.8
50°-60°	88.5	1.7
60°-70°	3.2	0.1
70°-80°	0.0	0.0
80°-90°	0.5	0.0
90°-100°	133.3	2.5
100°-110°	423.0	8.1
110°-120°	414.7	7.9
120°-130°	337.5	6.4
130°-140°	275.2	5.2
140°-150°	214.5	4.1
150°-160°	154.6	2.9
160°-170°	94.4	1.8
170°-180°	31.9	0.6
0°-30°	1666.6	31.8
0°-40°	2557.6	48.8
0°-60°	3159.5	60.3
0°-90°	3163.2	60.3
90°-120°	971.1	18.5
90°-150°	1798.2	34.3
90°-180°	2079.0	39.7
0°-180°	5242.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2116	2116	2116	2116	2116	
5°	2124	2119	2101	2130	2127	203
15°	2123	2141	2091	2094	2081	598
25°	1945	1963	1896	1876	1869	888
35°	1467	1478	1455	1427	1412	906
45°	619	711	728	688	581	479
55°	59	68	116	66	59	63
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	3	3	1
95°	18	54	242	90	58	21
105°	74	104	417	794	761	78
115°	132	156	337	700	823	130
125°	182	204	332	549	646	162
135°	220	242	330	472	532	170
145°	257	276	330	407	443	161
155°	293	303	331	364	378	135
165°	319	322	332	344	347	90
175°	334	333	334	336	335	32
180°	335	335	335	335	335	



TEST NUMBER: P559629

CATALOG NUMBER: DL2-BB-M-050U-075D-940-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2115.8	2115.8	2115.8	2115.8	2115.8
2.5°	2125.1	2119.3	2102.2	2121.6	2117.5
5°	2124.2	2119.0	2100.9	2129.5	2127.4
7.5°	2123.0	2119.4	2106.7	2130.0	2124.9
10°	2126.3	2125.3	2104.1	2128.3	2123.2
12.5°	2128.0	2134.5	2101.6	2120.6	2111.3
15°	2123.2	2140.8	2091.4	2094.3	2080.8
17.5°	2099.5	2124.3	2058.6	2046.5	2027.5
20°	2068.1	2097.1	2024.7	2004.2	1987.7
22.5°	2024.1	2050.6	1981.6	1956.1	1942.8
25°	1945.4	1962.9	1895.6	1876.4	1869.1
27.5°	1833.8	1838.8	1788.1	1764.2	1754.8
30°	1747.4	1747.4	1709.3	1683.5	1665.9
32.5°	1646.7	1644.2	1617.0	1588.7	1571.1
35°	1467.0	1478.3	1455.3	1427.4	1411.9
37.5°	1272.4	1276.8	1259.3	1229.4	1216.3
40°	1125.1	1126.1	1106.0	1084.4	1064.8
42.5°	953.2	974.1	955.3	921.3	913.2
45°	619.2	711.3	728.2	687.7	581.1
47.5°	311.2	425.8	497.7	386.5	273.7
50°	175.7	244.0	367.3	204.5	166.2
52.5°	117.3	147.5	254.7	133.7	112.0
55°	59.3	67.5	116.4	65.5	59.3
57.5°	20.1	31.3	50.6	32.4	22.2
60°	3.2	13.5	28.6	10.4	1.1
62.5°	0.6	3.5	17.6	2.9	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	0.2	0.6	0.6	0.6
90°	0.0	1.0	3.2	3.2	3.2
92.5°	5.9	23.4	74.8	24.9	17.5
95°	17.9	53.9	242.2	89.8	57.9
97.5°	33.3	69.9	410.2	256.3	157.3
100°	44.2	79.2	467.5	426.2	276.9
102.5°	56.0	89.4	457.4	625.8	479.0
105°	73.7	103.6	416.9	794.2	761.2
107.5°	91.4	119.0	378.4	811.7	856.2
110°	103.2	129.9	359.0	791.5	873.9



TEST NUMBER: P559629

CATALOG NUMBER: DL2-BB-M-050U-075D-940-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	115.0	140.1	348.1	756.6	861.2
115°	131.6	156.3	336.9	699.8	823.3
117.5°	147.8	171.3	332.5	645.1	769.6
120°	157.9	180.6	331.6	611.3	731.7
122.5°	168.0	189.9	331.6	584.1	696.4
125°	182.1	203.8	331.6	548.7	646.4
127.5°	194.6	215.4	331.6	521.2	604.5
130°	202.1	223.8	331.6	505.0	580.1
132.5°	209.7	231.3	330.8	492.2	559.9
135°	220.0	241.7	329.5	472.0	531.7
137.5°	230.2	252.8	329.3	452.7	506.0
140°	236.9	259.5	328.5	439.1	487.5
142.5°	245.3	267.1	329.3	425.5	470.6
145°	256.9	276.5	329.5	407.2	443.2
147.5°	268.5	285.2	329.8	391.1	420.5
150°	276.9	290.3	330.6	381.7	405.3
152.5°	283.6	295.4	330.6	374.0	393.6
155°	292.7	303.0	330.6	363.6	378.0
157.5°	302.4	309.4	331.6	357.1	367.0
160°	307.4	313.6	331.6	352.9	361.1
162.5°	312.5	317.0	331.6	349.5	355.2
165°	319.0	322.1	331.6	344.4	347.4
167.5°	325.1	325.9	332.7	340.8	343.4
170°	328.5	328.5	332.7	339.0	340.1
172.5°	330.2	331.0	332.7	337.3	337.5
175°	333.8	332.7	333.8	335.8	334.8
177.5°	334.8	334.0	334.0	335.6	334.0
180°	334.8	334.8	334.8	334.8	334.8

(END OF REPORT)