

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: P559689

Luminaire Tested: **DL2-BB-M-150U-075D-940-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559689
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-14, 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-150U-075D-940-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

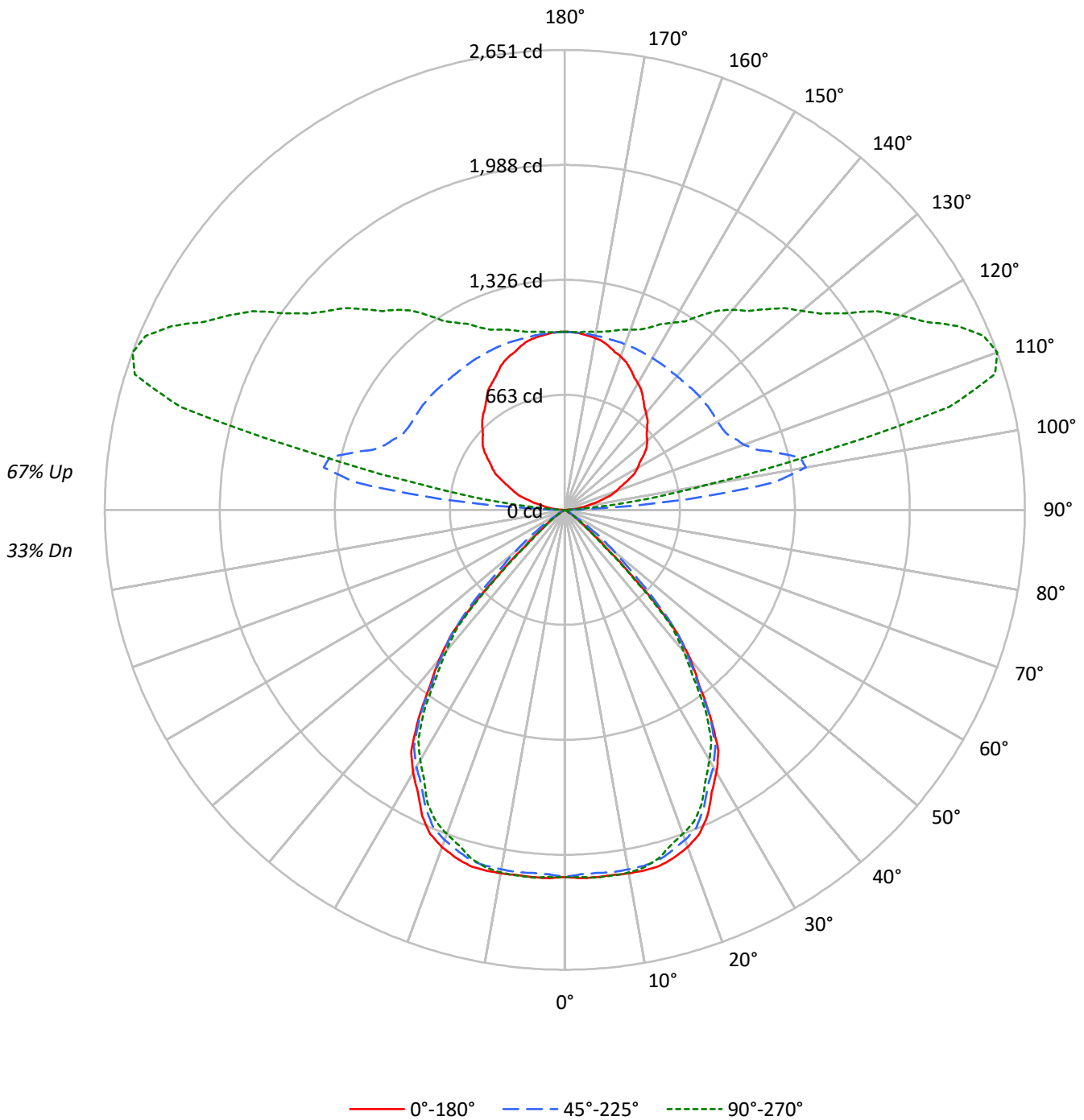
Lumens per Lamp: N/A
Luminaire Lumens: 9494.9 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 84.1
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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33				33
1	95	92	88	85	86	83	80	78	67	65	63	52	51	50	38	37	37				31	
2	88	82	76	72	79	74	70	66	60	57	55	47	45	44	35	34	33				28	
3	81	73	67	62	73	67	61	57	54	51	48	43	41	39	33	31	30				25	
4	75	66	59	53	68	60	54	49	49	45	42	39	37	34	30	28	27				23	
5	69	59	52	47	63	54	48	43	45	40	37	36	33	31	28	26	25				21	
6	64	53	46	41	58	49	43	38	41	36	33	33	30	28	26	24	22				19	
7	60	49	41	36	54	45	39	34	37	33	29	30	27	25	24	22	20				18	
8	55	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	48	37	31	26	44	35	29	25	29	25	22	24	21	19	19	17	16				14	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34168	34168	34168
5°	34434	34057	34486
10°	34869	34503	34816
15°	35497	34965	34788
20°	35541	34795	34160
25°	34663	33777	33305
30°	32585	31875	31066
35°	28919	28691	27835
40°	23718	23315	22447
45°	14141	16630	13271
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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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	2.1
10°-20°	592.7	6.2
20°-30°	871.9	9.2
30°-40°	891.2	9.4
40°-50°	513.4	5.4
50°-60°	88.5	0.9
60°-70°	3.2	0.0
70°-80°	0.0	0.0
80°-90°	1.5	0.0
90°-100°	390.8	4.1
100°-110°	1279.7	13.5
110°-120°	1265.1	13.3
120°-130°	1034.2	10.9
130°-140°	843.9	8.9
140°-150°	656.8	6.9
150°-160°	472.9	5.0
160°-170°	289.3	3.0
170°-180°	97.8	1.0
0°-30°	1666.9	17.6
0°-40°	2558.1	26.9
0°-60°	3160.0	33.3
0°-90°	3164.7	33.3
90°-120°	2935.6	30.9
90°-150°	5470.5	57.6
90°-180°	6330.0	66.7
0°-180°	9494.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2116	2116	2116	2116	2116	
5°	2125	2120	2101	2130	2128	203
15°	2124	2141	2092	2095	2081	598
25°	1946	1963	1896	1877	1870	888
35°	1467	1479	1456	1428	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°	1	3	8	7	8	3
95°	55	159	710	253	164	62
105°	222	317	1270	2413	2293	234
115°	401	479	1032	2132	2504	396
125°	558	622	1017	1682	1975	496
135°	672	743	1009	1450	1635	520
145°	785	843	1007	1248	1367	492
155°	895	925	1013	1116	1160	412
165°	977	986	1017	1056	1068	275
175°	1021	1021	1022	1030	1028	97
180°	1026	1026	1026	1026	1026	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2116.2	2116.2	2116.2	2116.2	2116.2
2.5°	2125.5	2119.7	2102.6	2122.0	2117.9
5°	2124.6	2119.5	2101.3	2129.9	2127.8
7.5°	2123.4	2119.8	2107.1	2130.4	2125.3
10°	2126.8	2125.7	2104.5	2128.8	2123.6
12.5°	2128.4	2134.9	2102.0	2121.0	2111.7
15°	2123.6	2141.2	2091.8	2094.7	2081.2
17.5°	2099.9	2124.7	2059.0	2046.9	2027.9
20°	2068.5	2097.5	2025.1	2004.6	1988.1
22.5°	2024.5	2051.0	1981.9	1956.4	1943.2
25°	1945.7	1963.3	1896.0	1876.8	1869.5
27.5°	1834.2	1839.1	1788.4	1764.5	1755.2
30°	1747.8	1747.8	1709.7	1683.9	1666.3
32.5°	1647.0	1644.5	1617.3	1589.0	1571.4
35°	1467.2	1478.6	1455.6	1427.7	1412.2
37.5°	1272.7	1277.0	1259.5	1229.6	1216.6
40°	1125.3	1126.3	1106.2	1084.6	1065.0
42.5°	953.4	974.3	955.5	921.4	913.4
45°	619.3	711.4	728.3	687.8	581.2
47.5°	311.2	425.9	497.8	386.6	273.8
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	67.6	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°	0.2	0.6	1.7	1.5	1.7
90°	1.1	3.1	8.4	7.4	8.4
92.5°	17.9	65.3	200.7	65.3	52.3
95°	54.8	158.9	710.5	253.1	164.4
97.5°	99.5	209.6	1219.0	737.4	457.1
100°	130.7	235.8	1410.4	1259.5	834.9
102.5°	166.1	268.8	1389.3	1855.9	1438.7
105°	222.4	317.2	1270.2	2413.3	2292.7
107.5°	277.9	364.9	1154.0	2465.4	2598.0
110°	314.1	398.6	1098.4	2404.8	2651.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	348.7	430.7	1064.7	2299.2	2614.8
115°	400.6	478.9	1032.0	2132.5	2503.5
117.5°	451.0	524.1	1019.5	1968.6	2345.4
120°	483.8	552.9	1016.2	1873.1	2240.0
122.5°	513.4	580.8	1016.2	1790.7	2131.2
125°	557.6	621.5	1017.2	1681.7	1975.4
127.5°	595.2	660.3	1016.0	1601.3	1856.9
130°	618.8	684.7	1015.1	1552.7	1783.6
132.5°	639.8	707.5	1012.6	1510.9	1720.3
135°	671.5	742.6	1008.8	1450.4	1634.9
137.5°	704.8	775.3	1006.5	1387.4	1554.2
140°	728.4	796.4	1005.6	1347.6	1505.3
142.5°	752.0	815.9	1005.6	1305.1	1447.9
145°	785.3	843.0	1006.7	1247.6	1367.2
147.5°	820.3	868.3	1008.2	1197.6	1287.9
150°	842.2	884.5	1009.8	1168.6	1244.9
152.5°	864.2	901.5	1010.7	1144.7	1207.8
155°	894.9	924.8	1013.0	1116.2	1159.5
157.5°	922.6	944.2	1015.3	1093.8	1125.2
160°	940.3	957.8	1016.2	1081.0	1105.8
162.5°	955.5	969.7	1016.2	1070.8	1088.9
165°	977.2	986.4	1017.2	1056.5	1067.8
167.5°	995.5	1000.0	1018.5	1045.4	1051.6
170°	1005.6	1007.7	1019.3	1039.4	1041.5
172.5°	1013.2	1014.5	1021.9	1035.2	1035.6
175°	1021.4	1021.4	1022.5	1029.8	1027.8
177.5°	1025.7	1024.8	1024.0	1029.0	1025.7
180°	1025.7	1025.7	1025.7	1025.7	1025.7

(END OF REPORT)