

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: P559692

Luminaire Tested: **DL2-BB-M-150U-100D-940-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559692
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-14, 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-150U-100D-940-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

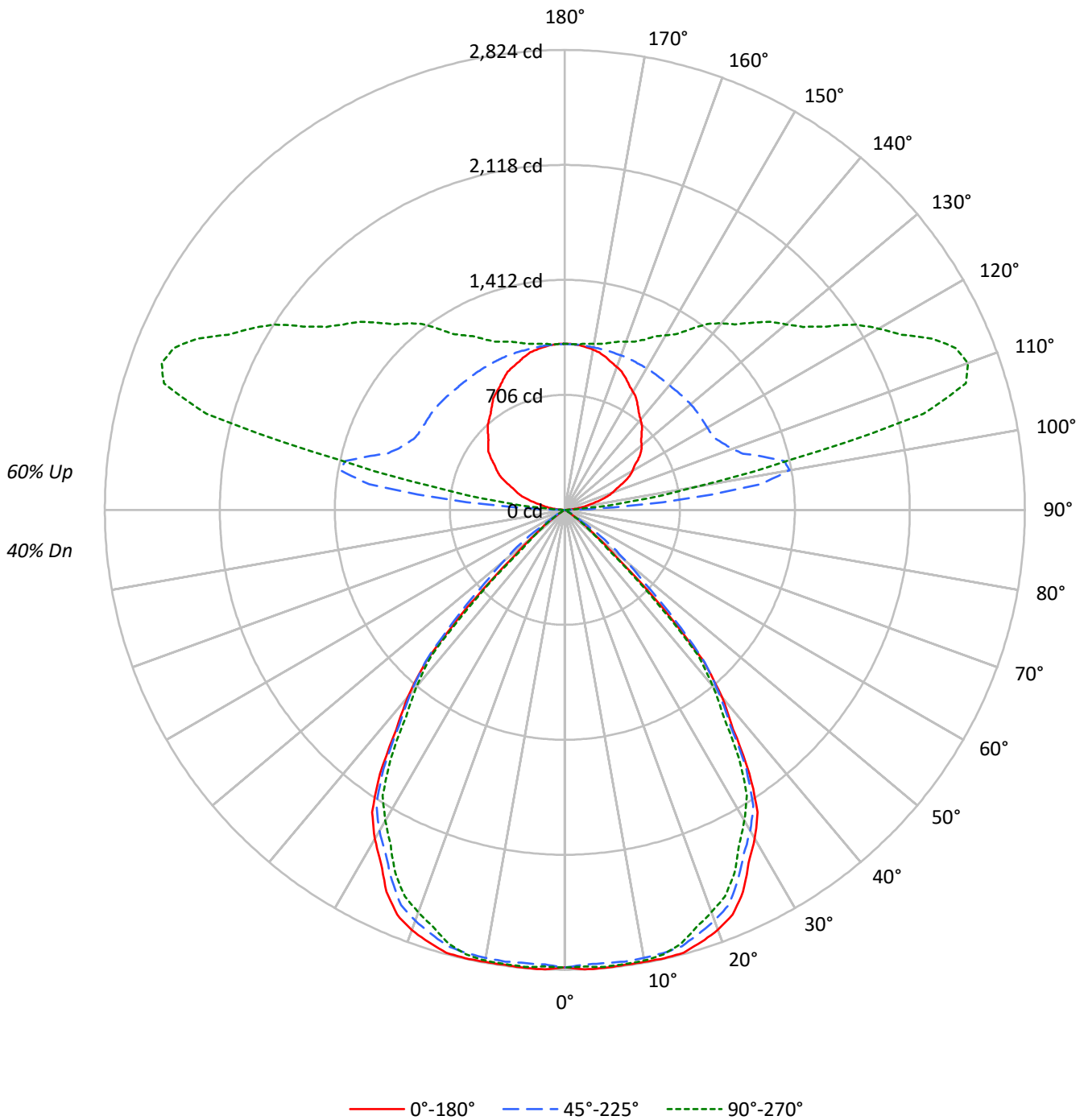
Lumens per Lamp: N/A
Luminaire Lumens: 10494.3 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 94.3
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: P559692
CATALOG NUMBER: DL2-BB-M-150U-100D-940-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P559692

CATALOG NUMBER: DL2-BB-M-150U-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	0
RCR																		
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40
1	97	93	90	87	88	85	83	80	70	69	67	57	56	54	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	56	52	52	48	45	43	40	38	35	33	32	28
5	71	61	54	49	65	56	50	46	48	43	40	40	37	34	32	30	29	25
6	66	55	48	43	60	51	45	41	44	39	36	37	33	31	30	28	26	23
7	61	50	43	38	56	47	41	36	40	35	32	34	30	28	28	26	24	21
8	57	46	39	34	53	43	37	33	37	32	29	31	28	25	26	24	22	20
9	54	42	36	31	49	40	34	29	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°	45368	45368	45368
5°	45764	45269	45644
10°	46207	45793	46086
15°	47057	46370	46089
20°	47177	46127	45187
25°	46119	44751	43869
30°	43477	42437	41081
35°	38950	38266	36730
40°	31598	31065	29845
45°	19231	21804	17260
50°	6136	12323	5606
55°	2134	4476	2193
60°	171	1292	36
65°	0	80	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P559692

CATALOG NUMBER: DL2-BB-M-150U-100D-940-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.5	2.6
10°-20°	785.3	7.5
20°-30°	1157.5	11.0
30°-40°	1185.3	11.3
40°-50°	683.0	6.5
50°-60°	119.6	1.1
60°-70°	4.6	0.0
70°-80°	0.0	0.0
80°-90°	1.5	0.0
90°-100°	388.3	3.7
100°-110°	1271.3	12.1
110°-120°	1256.9	12.0
120°-130°	1027.5	9.8
130°-140°	838.5	8.0
140°-150°	652.5	6.2
150°-160°	469.8	4.5
160°-170°	287.4	2.7
170°-180°	97.1	0.9
0°-30°	2211.3	21.1
0°-40°	3396.6	32.4
0°-60°	4199.2	40.0
0°-90°	4205.3	40.1
90°-120°	2916.5	27.8
90°-150°	5435.0	51.8
90°-180°	6289.0	59.9
0°-180°	10494.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2810	2810	2810	2810	2810	
5°	2824	2817	2793	2826	2816	269
15°	2815	2838	2774	2774	2757	793
25°	2589	2608	2512	2489	2462	1182
35°	1976	1965	1941	1894	1864	1213
45°	842	942	955	907	756	645
55°	76	91	159	86	78	85
65°	0	1	2	1	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	3	8	7	8	3
95°	54	158	706	251	163	62
105°	221	315	1262	2398	2278	233
115°	398	476	1025	2119	2487	393
125°	554	618	1011	1671	1963	493
135°	667	738	1002	1441	1624	516
145°	780	838	1000	1240	1358	489
155°	889	919	1006	1109	1152	409
165°	971	980	1011	1050	1061	274
175°	1015	1015	1016	1023	1021	96
180°	1019	1019	1019	1019	1019	



TEST NUMBER: P559692

CATALOG NUMBER: DL2-BB-M-150U-100D-940-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2809.9	2809.9	2809.9	2809.9	2809.9
2.5°	2824.2	2816.8	2794.8	2817.3	2807.4
5°	2823.6	2817.4	2793.1	2826.5	2816.2
7.5°	2818.4	2816.9	2798.1	2824.4	2812.7
10°	2818.4	2823.5	2793.1	2820.2	2811.0
12.5°	2820.0	2831.8	2788.0	2809.2	2795.8
15°	2815.2	2837.8	2774.1	2773.8	2757.3
17.5°	2783.6	2810.4	2730.1	2708.4	2686.3
20°	2745.7	2776.6	2684.6	2653.6	2629.9
22.5°	2691.0	2721.0	2627.4	2592.1	2568.4
25°	2588.8	2608.4	2512.0	2489.3	2462.5
27.5°	2444.0	2455.5	2380.6	2341.3	2317.2
30°	2332.0	2340.2	2276.2	2233.4	2203.5
32.5°	2202.3	2199.0	2152.3	2108.8	2080.5
35°	1976.1	1964.8	1941.4	1894.3	1863.5
37.5°	1698.0	1695.9	1672.7	1632.0	1599.6
40°	1499.2	1497.1	1473.9	1437.6	1416.0
42.5°	1258.3	1297.4	1270.1	1225.6	1212.2
45°	842.2	942.1	954.9	907.2	755.9
47.5°	434.6	568.0	665.0	517.9	358.8
50°	244.3	343.1	490.6	277.8	223.2
52.5°	159.2	206.9	342.4	177.3	149.9
55°	75.8	91.2	159.0	86.1	77.9
57.5°	27.2	42.0	69.5	42.6	26.3
60°	5.3	17.6	40.0	12.4	1.1
62.5°	1.9	5.2	23.2	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°	0.2	0.6	1.7	1.5	1.7
90°	1.0	3.1	8.4	7.4	8.4
92.5°	17.8	64.9	199.4	64.8	51.9
95°	54.5	157.9	705.9	251.4	163.4
97.5°	98.9	208.2	1211.1	732.6	454.1
100°	129.9	234.3	1401.2	1251.3	829.4
102.5°	165.0	267.0	1380.3	1843.8	1429.3
105°	221.0	315.2	1262.0	2397.6	2277.8
107.5°	276.1	362.5	1146.5	2449.4	2581.1
110°	312.1	396.1	1091.3	2389.1	2633.9



TEST NUMBER: P559692

CATALOG NUMBER: DL2-BB-M-150U-100D-940-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	346.4	427.9	1057.7	2284.3	2597.8
115°	398.0	475.8	1025.3	2118.6	2487.3
117.5°	448.0	520.7	1012.9	1955.8	2330.2
120°	480.7	549.3	1009.6	1860.9	2225.4
122.5°	510.0	577.0	1009.6	1779.0	2117.4
125°	554.0	617.5	1010.6	1670.7	1962.6
127.5°	591.3	656.0	1009.4	1590.9	1844.9
130°	614.7	680.3	1008.5	1542.6	1772.0
132.5°	635.7	702.9	1006.0	1501.1	1709.1
135°	667.1	737.8	1002.2	1441.0	1624.3
137.5°	700.2	770.2	999.9	1378.4	1544.1
140°	723.7	791.2	999.1	1338.8	1495.5
142.5°	747.1	810.6	999.1	1296.6	1438.5
145°	780.2	837.6	1000.1	1239.5	1358.3
147.5°	815.0	862.7	1001.6	1189.8	1279.5
150°	836.8	878.7	1003.3	1161.0	1236.8
152.5°	858.5	895.6	1004.1	1137.3	1200.0
155°	889.1	918.8	1006.4	1109.0	1152.0
157.5°	916.6	938.1	1008.7	1086.7	1117.9
160°	934.2	951.6	1009.6	1074.0	1098.6
162.5°	949.2	963.4	1009.6	1063.8	1081.8
165°	970.8	980.0	1010.6	1049.6	1060.9
167.5°	989.0	993.5	1011.9	1038.6	1044.8
170°	999.1	1001.1	1012.7	1032.7	1034.7
172.5°	1006.6	1007.9	1015.2	1028.4	1028.8
175°	1014.8	1014.8	1015.8	1023.1	1021.1
177.5°	1019.0	1018.2	1017.3	1022.3	1019.0
180°	1019.0	1019.0	1019.0	1019.0	1019.0

(END OF REPORT)