

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: P559687

Luminaire Tested: **DL2-BB-M-150U-075D-930-UNV-STD-W-4**

Issue Date: 3/5/2020

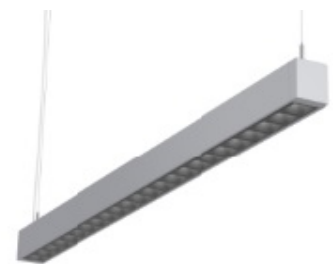
Test Information

Test Method: LM-79-08
Report Number: P559687
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-930-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

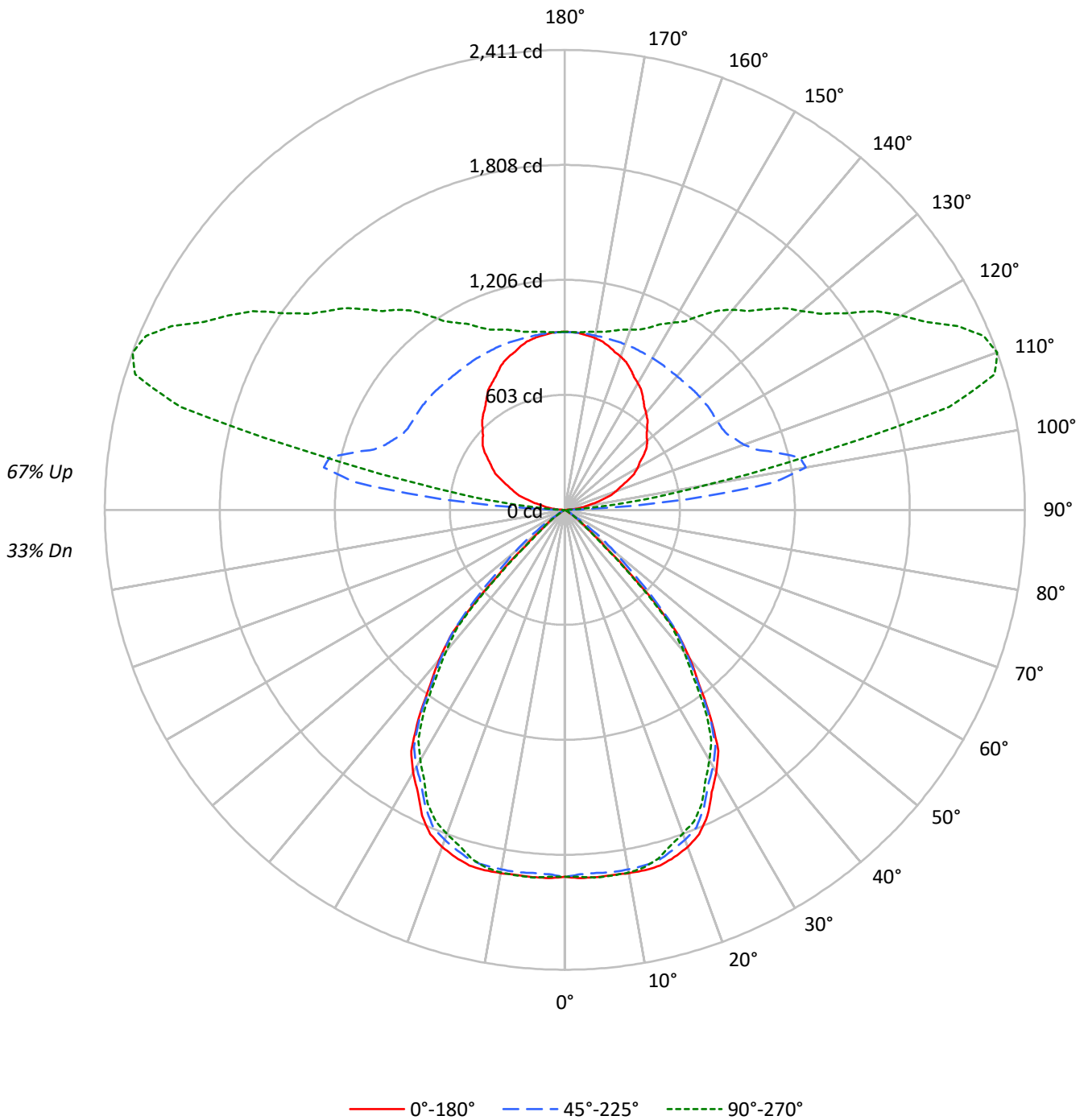
Lumens per Lamp: N/A
Luminaire Lumens: 8633.4 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	0
RCR																		
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	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°	31068	31068	31068
5°	31311	30968	31358
10°	31704	31373	31657
15°	32276	31793	31632
20°	32318	31639	31060
25°	31518	30713	30284
30°	29628	28981	28247
35°	26296	26087	25310
40°	21566	21201	20409
45°	12858	15120	12065
50°	4014	8390	3795
55°	1517	2981	1517
60°	94	840	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°	184.0	2.1
10°-20°	538.9	6.2
20°-30°	792.8	9.2
30°-40°	810.3	9.4
40°-50°	466.8	5.4
50°-60°	80.5	0.9
60°-70°	2.9	0.0
70°-80°	0.0	0.0
80°-90°	1.3	0.0
90°-100°	355.3	4.1
100°-110°	1163.6	13.5
110°-120°	1150.4	13.3
120°-130°	940.4	10.9
130°-140°	767.4	8.9
140°-150°	597.2	6.9
150°-160°	430.0	5.0
160°-170°	263.1	3.0
170°-180°	88.9	1.0
0°-30°	1515.7	17.6
0°-40°	2326.0	26.9
0°-60°	2873.3	33.3
0°-90°	2877.6	33.3
90°-120°	2669.3	30.9
90°-150°	4974.2	57.6
90°-180°	5756.0	66.7
0°-180°	8633.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1924	1924	1924	1924	1924	
5°	1932	1927	1911	1937	1935	184
15°	1931	1947	1902	1905	1892	544
25°	1769	1785	1724	1706	1700	807
35°	1334	1344	1324	1298	1284	824
45°	563	647	662	625	528	436
55°	54	61	106	60	54	57
65°	0	0	1	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	3	8	7	8	3
95°	50	144	646	230	150	57
105°	202	288	1155	2194	2085	213
115°	364	435	938	1939	2276	360
125°	507	565	925	1529	1796	451
135°	611	675	917	1319	1487	472
145°	714	766	915	1134	1243	447
155°	814	841	921	1015	1054	375
165°	888	897	925	961	971	250
175°	929	929	930	936	934	88
180°	933	933	933	933	933	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1924.2	1924.2	1924.2	1924.2	1924.2
2.5°	1932.6	1927.4	1911.8	1929.5	1925.7
5°	1931.9	1927.2	1910.7	1936.6	1934.8
7.5°	1930.7	1927.5	1915.9	1937.2	1932.4
10°	1933.8	1932.9	1913.6	1935.6	1930.9
12.5°	1935.3	1941.2	1911.3	1928.6	1920.1
15°	1930.9	1946.9	1902.0	1904.6	1892.4
17.5°	1909.3	1931.9	1872.2	1861.2	1843.9
20°	1880.9	1907.2	1841.4	1822.8	1807.7
22.5°	1840.8	1864.9	1802.1	1778.9	1766.9
25°	1769.2	1785.2	1724.0	1706.5	1699.9
27.5°	1667.7	1672.3	1626.2	1604.4	1595.9
30°	1589.2	1589.2	1554.5	1531.1	1515.1
32.5°	1497.6	1495.3	1470.6	1444.8	1428.8
35°	1334.1	1344.5	1323.5	1298.2	1284.1
37.5°	1157.2	1161.2	1145.3	1118.0	1106.2
40°	1023.2	1024.1	1005.9	986.2	968.3
42.5°	866.9	885.9	868.8	837.8	830.5
45°	563.1	646.9	662.2	625.4	528.4
47.5°	283.0	387.3	452.6	351.5	248.9
50°	159.8	221.9	334.0	185.9	151.1
52.5°	106.7	134.1	231.6	121.6	101.8
55°	53.9	61.4	105.9	59.6	53.9
57.5°	18.3	28.5	46.0	29.4	20.2
60°	2.9	12.3	26.0	9.4	1.0
62.5°	0.6	3.2	16.0	2.6	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°	0.2	0.6	1.5	1.3	1.5
90°	1.0	2.8	7.7	6.7	7.7
92.5°	16.3	59.4	182.5	59.3	47.5
95°	49.8	144.5	646.0	230.1	149.5
97.5°	90.5	190.6	1108.4	670.5	415.6
100°	118.9	214.4	1282.4	1145.2	759.1
102.5°	151.1	244.4	1263.3	1687.5	1308.1
105°	202.2	288.5	1155.0	2194.3	2084.7
107.5°	252.7	331.8	1049.3	2241.7	2362.3
110°	285.6	362.5	998.7	2186.6	2410.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	317.1	391.7	968.1	2090.6	2377.6
115°	364.2	435.4	938.4	1939.0	2276.4
117.5°	410.0	476.6	927.0	1790.0	2132.6
120°	439.9	502.7	924.0	1703.1	2036.8
122.5°	466.8	528.1	924.0	1628.2	1937.9
125°	507.0	565.1	924.9	1529.1	1796.2
127.5°	541.2	600.4	923.8	1456.0	1688.5
130°	562.6	622.6	923.0	1411.8	1621.7
132.5°	581.8	643.3	920.7	1373.8	1564.2
135°	610.6	675.2	917.3	1318.8	1486.6
137.5°	640.8	704.9	915.2	1261.5	1413.2
140°	662.3	724.2	914.4	1225.3	1368.7
142.5°	683.8	741.9	914.4	1186.7	1316.6
145°	714.1	766.5	915.3	1134.4	1243.1
147.5°	745.9	789.6	916.7	1089.0	1171.1
150°	765.8	804.2	918.2	1062.6	1132.0
152.5°	785.8	819.7	919.0	1040.9	1098.2
155°	813.7	840.9	921.1	1015.0	1054.3
157.5°	838.9	858.5	923.2	994.6	1023.1
160°	855.0	870.9	924.0	983.0	1005.4
162.5°	868.8	881.7	924.0	973.6	990.1
165°	888.5	896.9	924.9	960.6	970.9
167.5°	905.2	909.3	926.1	950.6	956.2
170°	914.4	916.3	926.8	945.1	947.0
172.5°	921.3	922.4	929.1	941.2	941.6
175°	928.8	928.8	929.7	936.4	934.5
177.5°	932.6	931.8	931.1	935.6	932.6
180°	932.6	932.6	932.6	932.6	932.6

(END OF REPORT)