

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: P559628

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

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559628
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-935-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

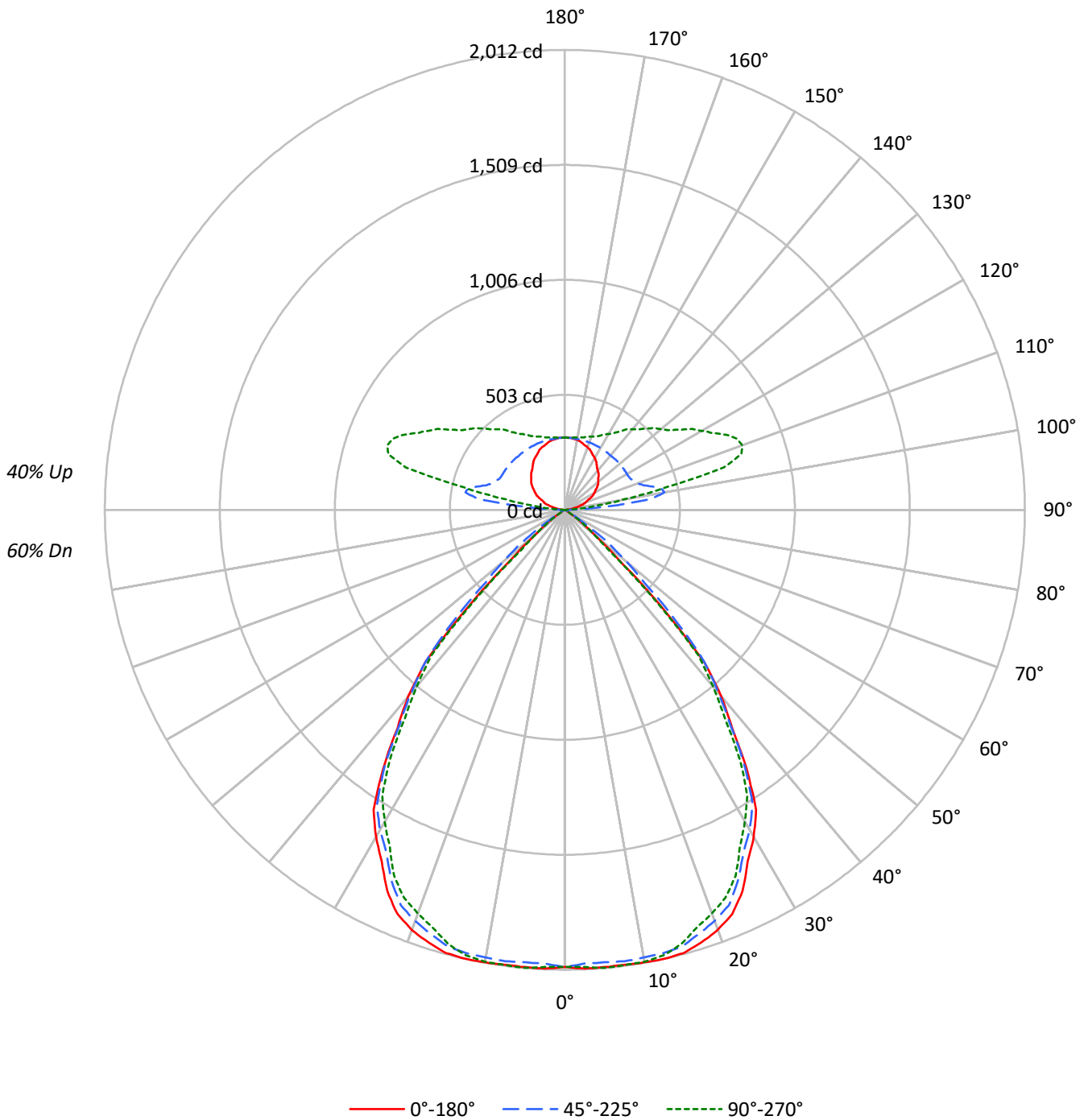
Lumens per Lamp: N/A
Luminaire Lumens: 4955.8 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

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



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32295	32295	32295
5°	32548	32191	32597
10°	32957	32613	32908
15°	33551	33050	32883
20°	33594	32890	32287
25°	32763	31926	31481
30°	30799	30128	29364
35°	27334	27118	26309
40°	22417	22038	21216
45°	13367	15719	12543
50°	4172	8721	3946
55°	1576	3099	1576
60°	97	872	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°	191.2	3.9
10°-20°	560.2	11.3
20°-30°	824.1	16.6
30°-40°	842.4	17.0
40°-50°	485.3	9.8
50°-60°	83.6	1.7
60°-70°	3.0	0.1
70°-80°	0.0	0.0
80°-90°	0.5	0.0
90°-100°	126.1	2.5
100°-110°	399.9	8.1
110°-120°	392.1	7.9
120°-130°	319.0	6.4
130°-140°	260.1	5.2
140°-150°	202.8	4.1
150°-160°	146.1	2.9
160°-170°	89.3	1.8
170°-180°	30.1	0.6
0°-30°	1575.6	31.8
0°-40°	2417.9	48.8
0°-60°	2986.9	60.3
0°-90°	2990.4	60.3
90°-120°	918.0	18.5
90°-150°	1700.0	34.3
90°-180°	1966.0	39.7
0°-180°	4955.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2000	2000	2000	2000	2000	
5°	2008	2003	1986	2013	2011	192
15°	2007	2024	1977	1980	1967	565
25°	1839	1856	1792	1774	1767	839
35°	1387	1398	1376	1350	1335	857
45°	585	672	688	650	549	453
55°	56	64	110	62	56	59
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°	17	51	229	85	55	20
105°	70	98	394	751	720	73
115°	124	148	318	662	778	123
125°	172	193	314	519	611	153
135°	208	228	312	446	503	161
145°	243	261	312	385	419	152
155°	277	286	312	344	357	128
165°	302	304	314	326	328	85
175°	316	315	316	318	316	30
180°	316	316	316	316	316	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2000.2	2000.2	2000.2	2000.2	2000.2
2.5°	2009.0	2003.5	1987.4	2005.7	2001.8
5°	2008.2	2003.3	1986.2	2013.2	2011.2
7.5°	2007.0	2003.7	1991.6	2013.7	2008.8
10°	2010.2	2009.2	1989.2	2012.1	2007.2
12.5°	2011.8	2017.9	1986.8	2004.8	1996.0
15°	2007.2	2023.8	1977.2	1979.9	1967.2
17.5°	1984.8	2008.3	1946.2	1934.8	1916.8
20°	1955.2	1982.6	1914.2	1894.8	1879.1
22.5°	1913.6	1938.6	1873.3	1849.2	1836.7
25°	1839.1	1855.7	1792.1	1773.9	1767.1
27.5°	1733.6	1738.3	1690.4	1667.8	1659.0
30°	1652.0	1652.0	1616.0	1591.6	1575.0
32.5°	1556.7	1554.4	1528.7	1501.9	1485.3
35°	1386.8	1397.6	1375.8	1349.5	1334.8
37.5°	1202.9	1207.0	1190.5	1162.2	1149.9
40°	1063.6	1064.6	1045.6	1025.2	1006.6
42.5°	901.1	920.9	903.1	871.0	863.3
45°	585.4	672.4	688.4	650.1	549.3
47.5°	294.2	402.6	470.5	365.4	258.8
50°	166.1	230.7	347.2	193.3	157.1
52.5°	110.9	139.4	240.7	126.4	105.9
55°	56.0	63.9	110.1	61.9	56.0
57.5°	19.0	29.6	47.8	30.6	21.0
60°	3.0	12.8	27.0	9.8	1.0
62.5°	0.6	3.3	16.6	2.7	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	0.6	0.6
90°	0.0	1.0	3.0	3.0	3.0
92.5°	5.6	22.1	70.7	23.5	16.5
95°	16.9	51.0	228.9	84.9	54.7
97.5°	31.5	66.1	387.8	242.3	148.7
100°	41.8	74.9	441.9	402.9	261.8
102.5°	53.0	84.5	432.4	591.7	452.9
105°	69.7	97.9	394.2	750.8	719.6
107.5°	86.4	112.5	357.7	767.4	809.4
110°	97.5	122.8	339.4	748.3	826.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	108.7	132.4	329.1	715.3	814.2
115°	124.4	147.8	318.5	661.6	778.4
117.5°	139.7	161.9	314.3	609.8	727.6
120°	149.3	170.7	313.5	577.9	691.8
122.5°	158.9	179.5	313.5	552.2	658.3
125°	172.2	192.6	313.5	518.7	611.1
127.5°	183.9	203.6	313.5	492.7	571.5
130°	191.1	211.5	313.5	477.4	548.4
132.5°	198.3	218.7	312.7	465.3	529.3
135°	208.0	228.5	311.5	446.2	502.7
137.5°	217.6	239.0	311.3	428.0	478.4
140°	224.0	245.4	310.5	415.1	460.8
142.5°	231.9	252.5	311.3	402.3	444.9
145°	242.9	261.4	311.5	385.0	419.0
147.5°	253.8	269.6	311.7	369.7	397.5
150°	261.8	274.4	312.5	360.8	383.2
152.5°	268.1	279.2	312.5	353.6	372.1
155°	276.7	286.4	312.5	343.7	357.3
157.5°	285.9	292.5	313.5	337.6	347.0
160°	290.6	296.5	313.5	333.6	341.4
162.5°	295.4	299.7	313.5	330.4	335.8
165°	301.6	304.5	313.5	325.5	328.5
167.5°	307.4	308.1	314.5	322.2	324.7
170°	310.5	310.5	314.5	320.5	321.5
172.5°	312.1	312.9	314.5	318.9	319.1
175°	315.5	314.6	315.5	317.5	316.5
177.5°	316.5	315.7	315.7	317.3	315.7
180°	316.5	316.5	316.5	316.5	316.5

(END OF REPORT)