

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: P559664

Luminaire Tested: **DL2-BB-M-100U-075D-935-UNV-STD-W-4**

Issue Date: 3/5/2020

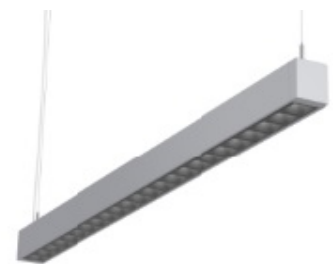
Test Information

Test Method: LM-79-08
Report Number: P559664
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-12, 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-100U-075D-935-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

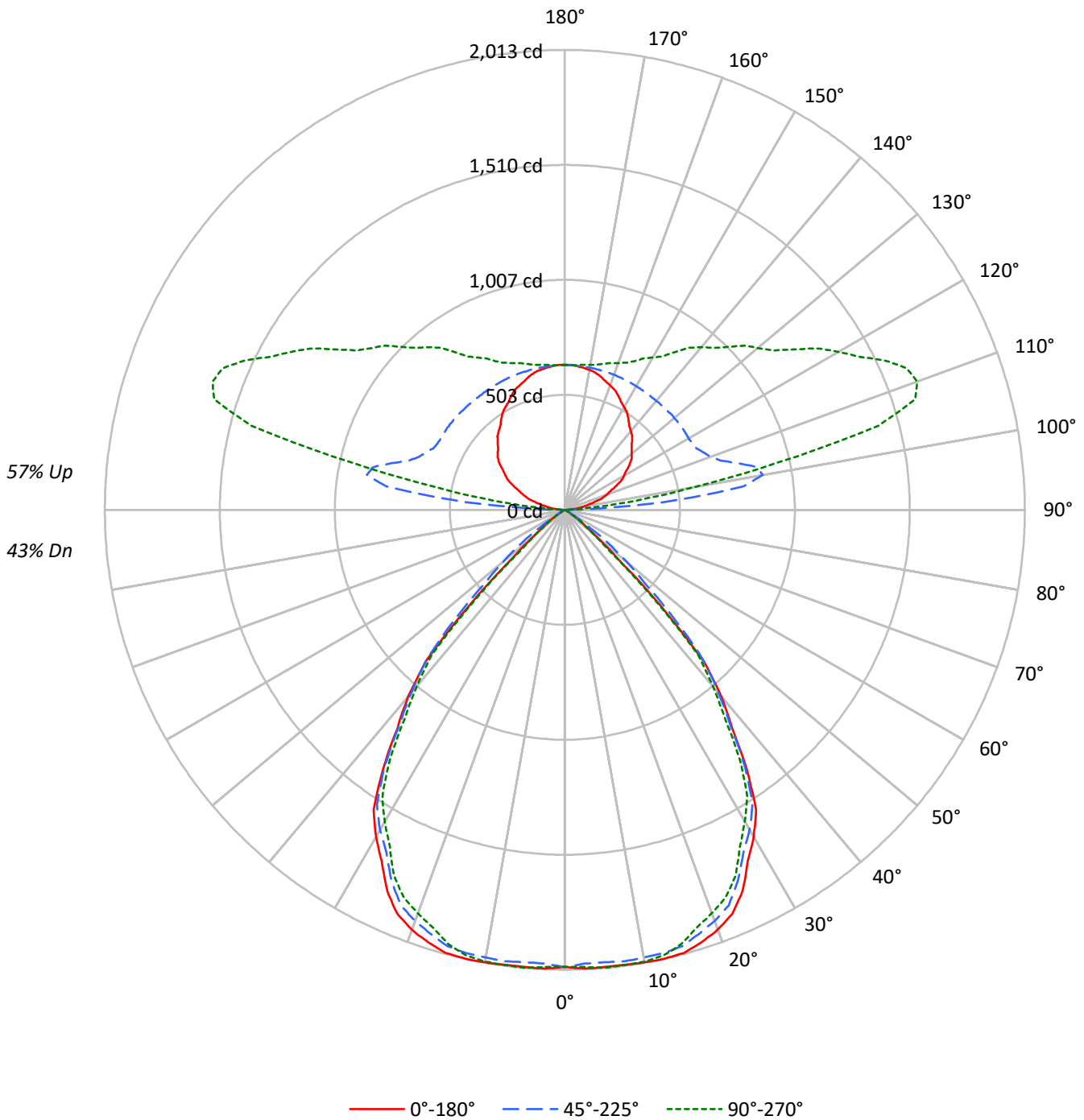
Lumens per Lamp: N/A
Luminaire Lumens: 6937.7 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 60.2
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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43
1	98	94	91	88	90	87	84	81	72	70	69	59	58	57	47	46	45	40
2	91	84	79	75	83	78	73	70	65	62	60	54	52	50	43	42	41	36
3	84	76	70	65	77	70	65	61	59	56	52	49	47	45	40	38	37	33
4	78	68	62	56	71	63	58	53	54	50	46	45	42	40	37	35	34	30
5	72	62	55	50	66	58	51	47	49	45	41	42	38	36	34	32	31	27
6	67	56	49	44	62	52	46	42	45	40	37	38	35	32	32	30	28	25
7	62	51	44	39	57	48	42	37	41	37	33	35	32	29	30	27	25	23
8	58	47	40	35	54	44	38	34	38	33	30	33	29	27	28	25	23	21
9	54	43	36	32	50	41	35	30	35	31	27	30	27	24	26	23	21	19
10	51	40	33	29	47	37	32	28	33	28	25	28	25	22	24	22	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32309	32309	32309
5°	32563	32206	32611
10°	32972	32628	32923
15°	33566	33063	32896
20°	33608	32904	32301
25°	32778	31940	31493
30°	30812	30141	29375
35°	27346	27129	26321
40°	22428	22049	21224
45°	13371	15726	12549
50°	4175	8726	3949
55°	1579	3099	1579
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°	191.3	2.8
10°-20°	560.4	8.1
20°-30°	824.5	11.9
30°-40°	842.7	12.1
40°-50°	485.5	7.0
50°-60°	83.7	1.2
60°-70°	3.0	0.0
70°-80°	0.0	0.0
80°-90°	1.5	0.0
90°-100°	264.7	3.8
100°-110°	800.7	11.5
110°-120°	781.7	11.3
120°-130°	638.8	9.2
130°-140°	521.4	7.5
140°-150°	405.9	5.9
150°-160°	292.6	4.2
160°-170°	179.1	2.6
170°-180°	60.5	0.9
0°-30°	1576.3	22.7
0°-40°	2419.0	34.9
0°-60°	2988.2	43.1
0°-90°	2992.7	43.1
90°-120°	1847.1	26.6
90°-150°	3413.2	49.2
90°-180°	3945.0	56.9
0°-180°	6937.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2001	2001	2001	2001	2001	
5°	2009	2004	1987	2014	2012	192
15°	2008	2025	1978	1981	1968	565
25°	1840	1856	1793	1775	1768	840
35°	1387	1398	1376	1350	1335	857
45°	586	673	689	650	550	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	2	12	7	6	2
95°	33	104	500	185	116	39
105°	139	196	786	1493	1419	146
115°	248	296	636	1316	1546	245
125°	346	384	627	1039	1223	308
135°	415	459	623	896	1008	321
145°	485	521	623	771	843	304
155°	552	571	627	691	718	254
165°	604	611	630	654	662	170
175°	632	632	633	638	636	60
180°	634	634	634	634	634	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2001.1	2001.1	2001.1	2001.1	2001.1
2.5°	2009.9	2004.4	1988.3	2006.6	2002.7
5°	2009.1	2004.2	1987.1	2014.0	2012.1
7.5°	2007.9	2004.6	1992.5	2014.6	2009.7
10°	2011.1	2010.1	1990.1	2013.0	2008.1
12.5°	2012.7	2018.8	1987.7	2005.7	1996.9
15°	2008.1	2024.7	1978.0	1980.8	1968.0
17.5°	1985.7	2009.1	1947.0	1935.6	1917.6
20°	1956.0	1983.4	1915.0	1895.6	1879.9
22.5°	1914.4	1939.4	1874.1	1850.0	1837.5
25°	1839.9	1856.5	1792.9	1774.7	1767.8
27.5°	1734.4	1739.1	1691.2	1668.5	1659.7
30°	1652.7	1652.7	1616.7	1592.3	1575.6
32.5°	1557.4	1555.1	1529.4	1502.6	1485.9
35°	1387.4	1398.2	1376.4	1350.1	1335.4
37.5°	1203.4	1207.6	1191.0	1162.7	1150.4
40°	1064.1	1065.1	1046.1	1025.6	1007.0
42.5°	901.5	921.3	903.5	871.3	863.7
45°	585.6	672.7	688.7	650.4	549.6
47.5°	294.3	402.8	470.7	365.6	258.9
50°	166.2	230.8	347.4	193.4	157.2
52.5°	110.9	139.5	240.8	126.5	105.9
55°	56.1	63.9	110.1	61.9	56.1
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	0.4	2.4	1.4	1.2
90°	0.0	1.9	11.9	6.9	6.0
92.5°	11.1	45.0	161.6	53.6	38.6
95°	32.8	103.9	499.6	184.6	116.4
97.5°	63.5	132.2	787.4	521.0	317.3
100°	82.6	149.7	879.7	850.5	571.2
102.5°	104.1	168.9	860.6	1192.9	951.0
105°	139.3	195.8	786.2	1493.1	1419.1
107.5°	172.8	226.7	714.5	1522.8	1608.4
110°	195.1	246.6	678.7	1485.4	1641.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	216.6	266.6	657.2	1422.6	1619.6
115°	247.8	295.5	635.9	1315.9	1545.5
117.5°	278.8	324.0	628.4	1215.9	1451.0
120°	299.5	342.4	626.0	1157.5	1383.3
122.5°	318.7	359.1	626.0	1106.2	1314.8
125°	346.3	384.3	627.0	1039.2	1223.1
127.5°	368.8	408.1	626.0	988.6	1145.4
130°	383.1	424.0	626.0	959.6	1101.7
132.5°	395.9	437.5	625.2	933.1	1064.2
135°	415.0	458.8	623.0	896.2	1008.1
137.5°	436.3	477.9	623.0	856.8	960.5
140°	449.8	490.7	623.0	831.2	929.5
142.5°	463.4	502.7	622.2	807.8	893.7
145°	484.7	520.7	623.0	770.9	842.9
147.5°	505.9	536.5	624.2	740.5	795.7
150°	519.5	547.7	625.0	723.6	770.3
152.5°	532.2	557.3	625.8	709.0	747.2
155°	552.3	570.8	627.0	691.2	717.5
157.5°	569.8	584.8	628.2	678.1	696.4
160°	580.2	592.8	629.0	670.1	683.7
162.5°	590.5	600.1	629.7	662.8	674.1
165°	604.1	610.9	629.9	654.0	661.8
167.5°	615.6	619.1	631.1	647.1	650.4
170°	622.0	623.9	631.9	643.9	644.9
172.5°	626.0	627.1	631.9	640.7	640.9
175°	631.9	631.9	632.9	637.9	635.9
177.5°	634.7	633.9	633.1	635.5	633.9
180°	633.9	633.9	633.9	633.9	633.9

(END OF REPORT)