

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: P559627

Luminaire Tested: **DL2-BB-M-050U-075D-930-UNV-STD-W-4**

Issue Date: 3/5/2020

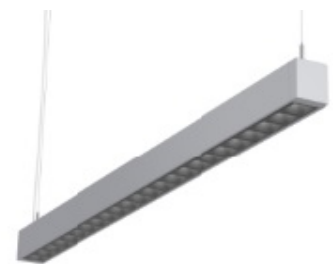
Test Information

Test Method: LM-79-08
Report Number: P559627
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-930-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

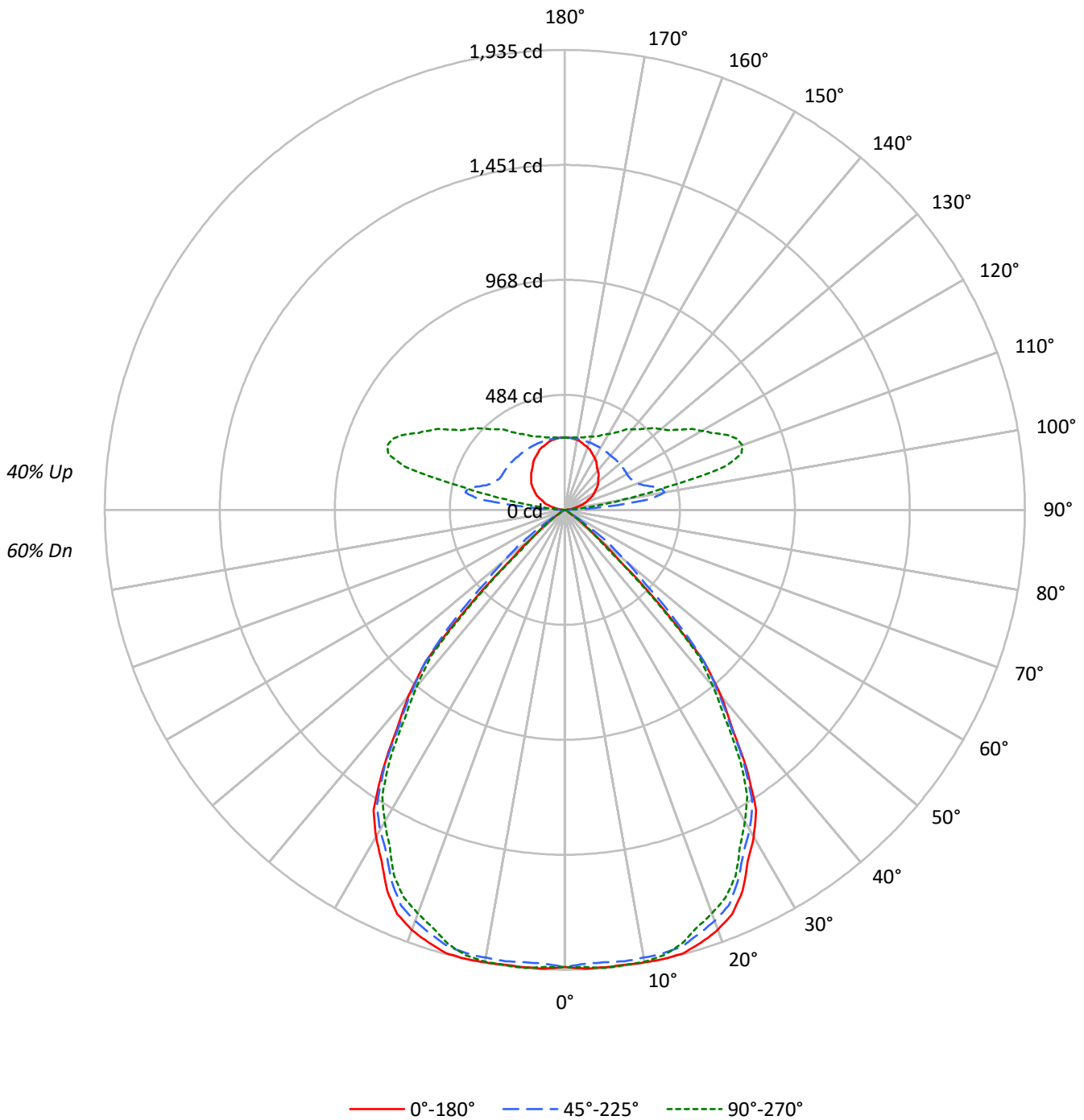
Lumens per Lamp: N/A
Luminaire Lumens: 4766.6 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	50	30	10	0	
RCR																						
0	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66	66	66	66	60	
1	102	99	96	93	96	93	90	88	82	80	78	71	70	69	62	61	60	60	60	60	56	
2	95	89	84	80	89	84	80	76	75	71	69	66	63	61	57	56	55	55	55	55	51	
3	89	81	75	70	83	77	71	67	68	64	61	60	58	55	53	51	50	50	50	50	46	
4	83	74	67	62	78	70	64	59	62	58	54	56	52	50	49	47	45	45	45	45	42	
5	77	67	60	55	72	64	58	53	57	53	49	51	48	45	46	43	41	41	41	41	38	
6	72	61	54	49	68	58	52	47	53	48	44	48	44	41	43	40	37	37	37	37	35	
7	67	56	49	44	63	54	47	43	49	44	40	44	40	37	40	37	34	34	34	34	32	
8	63	52	45	40	59	49	43	39	45	40	36	41	37	34	37	34	31	31	31	31	29	
9	59	48	41	36	56	46	40	35	42	37	33	38	34	31	35	31	29	29	29	29	27	
10	55	44	38	33	52	42	36	32	39	34	31	36	31	29	32	29	27	27	27	27	25	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31061	31061	31061
5°	31305	30961	31352
10°	31698	31367	31650
15°	32269	31788	31626
20°	32311	31632	31055
25°	31513	30706	30278
30°	29623	28976	28241
35°	26292	26083	25304
40°	21562	21197	20407
45°	12855	15118	12063
50°	4014	8387	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°	183.9	3.9
10°-20°	538.8	11.3
20°-30°	792.7	16.6
30°-40°	810.2	17.0
40°-50°	466.7	9.8
50°-60°	80.4	1.7
60°-70°	2.9	0.1
70°-80°	0.0	0.0
80°-90°	0.5	0.0
90°-100°	121.3	2.5
100°-110°	384.6	8.1
110°-120°	377.1	7.9
120°-130°	306.9	6.4
130°-140°	250.2	5.2
140°-150°	195.1	4.1
150°-160°	140.6	2.9
160°-170°	85.9	1.8
170°-180°	29.0	0.6
0°-30°	1515.4	31.8
0°-40°	2325.6	48.8
0°-60°	2872.8	60.3
0°-90°	2876.2	60.3
90°-120°	883.0	18.5
90°-150°	1635.1	34.3
90°-180°	1891.0	39.7
0°-180°	4766.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1924	1924	1924	1924	1924	
5°	1932	1927	1910	1936	1934	184
15°	1930	1946	1902	1904	1892	544
25°	1769	1785	1724	1706	1700	807
35°	1334	1344	1323	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°	0	1	3	3	3	1
95°	16	49	220	82	53	19
105°	67	94	379	722	692	71
115°	120	142	306	636	749	118
125°	166	185	302	499	588	147
135°	200	220	300	429	483	154
145°	234	251	300	370	403	146
155°	266	276	301	331	344	123
165°	290	293	302	313	316	82
175°	304	302	304	305	304	29
180°	304	304	304	304	304	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1923.8	1923.8	1923.8	1923.8	1923.8
2.5°	1932.3	1927.0	1911.5	1929.1	1925.3
5°	1931.5	1926.8	1910.3	1936.3	1934.4
7.5°	1930.3	1927.1	1915.5	1936.8	1932.1
10°	1933.4	1932.5	1913.2	1935.2	1930.5
12.5°	1935.0	1940.8	1910.9	1928.2	1919.8
15°	1930.5	1946.5	1901.7	1904.3	1892.0
17.5°	1909.0	1931.6	1871.8	1860.9	1843.5
20°	1880.5	1906.8	1841.0	1822.4	1807.4
22.5°	1840.5	1864.5	1801.8	1778.6	1766.5
25°	1768.9	1784.9	1723.6	1706.2	1699.6
27.5°	1667.4	1671.9	1625.8	1604.1	1595.6
30°	1588.9	1588.9	1554.2	1530.8	1514.8
32.5°	1497.3	1495.0	1470.3	1444.6	1428.6
35°	1333.9	1344.2	1323.3	1297.9	1283.8
37.5°	1157.0	1160.9	1145.0	1117.8	1106.0
40°	1023.0	1024.0	1005.7	986.0	968.2
42.5°	866.7	885.7	868.6	837.7	830.3
45°	563.0	646.7	662.1	625.3	528.3
47.5°	282.9	387.2	452.5	351.4	248.9
50°	159.8	221.9	333.9	185.9	151.1
52.5°	106.6	134.1	231.5	121.6	101.8
55°	53.9	61.4	105.9	59.5	53.9
57.5°	18.3	28.4	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°	0.0	0.2	0.6	0.6	0.6
90°	0.0	0.9	2.9	2.9	2.9
92.5°	5.4	21.3	68.0	22.6	15.9
95°	16.3	49.0	220.2	81.7	52.7
97.5°	30.3	63.6	373.0	233.1	143.0
100°	40.2	72.0	425.1	387.5	251.8
102.5°	50.9	81.3	415.9	569.1	435.6
105°	67.0	94.2	379.1	722.1	692.1
107.5°	83.1	108.2	344.1	738.1	778.5
110°	93.8	118.2	326.4	719.7	794.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	104.5	127.4	316.5	688.0	783.1
115°	119.7	142.1	306.3	636.3	748.6
117.5°	134.4	155.8	302.3	586.5	699.8
120°	143.6	164.2	301.6	555.8	665.3
122.5°	152.8	172.6	301.6	531.1	633.2
125°	165.6	185.3	301.6	498.9	587.8
127.5°	176.9	195.8	301.6	473.9	549.7
130°	183.8	203.5	301.6	459.2	527.5
132.5°	190.7	210.4	300.8	447.5	509.1
135°	200.1	219.7	299.6	429.2	483.4
137.5°	209.3	229.9	299.5	411.6	460.1
140°	215.4	236.0	298.7	399.2	443.2
142.5°	223.1	242.9	299.5	386.9	427.9
145°	233.6	251.4	299.6	370.3	403.0
147.5°	244.1	259.3	299.8	355.6	382.4
150°	251.8	263.9	300.6	347.0	368.6
152.5°	257.9	268.6	300.6	340.1	357.8
155°	266.1	275.5	300.6	330.6	343.7
157.5°	274.9	281.3	301.6	324.7	333.7
160°	279.5	285.2	301.6	320.9	328.4
162.5°	284.1	288.3	301.6	317.8	323.0
165°	290.1	292.9	301.6	313.1	315.9
167.5°	295.6	296.4	302.5	309.8	312.3
170°	298.7	298.7	302.5	308.3	309.2
172.5°	300.2	301.0	302.5	306.7	306.9
175°	303.5	302.5	303.5	305.4	304.4
177.5°	304.4	303.7	303.7	305.2	303.7
180°	304.4	304.4	304.4	304.4	304.4

(END OF REPORT)