

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: P296800

Luminaire Tested: **D3X-WD-50L82765-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-50L82765-LD5-UNV-24-T1-W2A-5000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4824.0 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

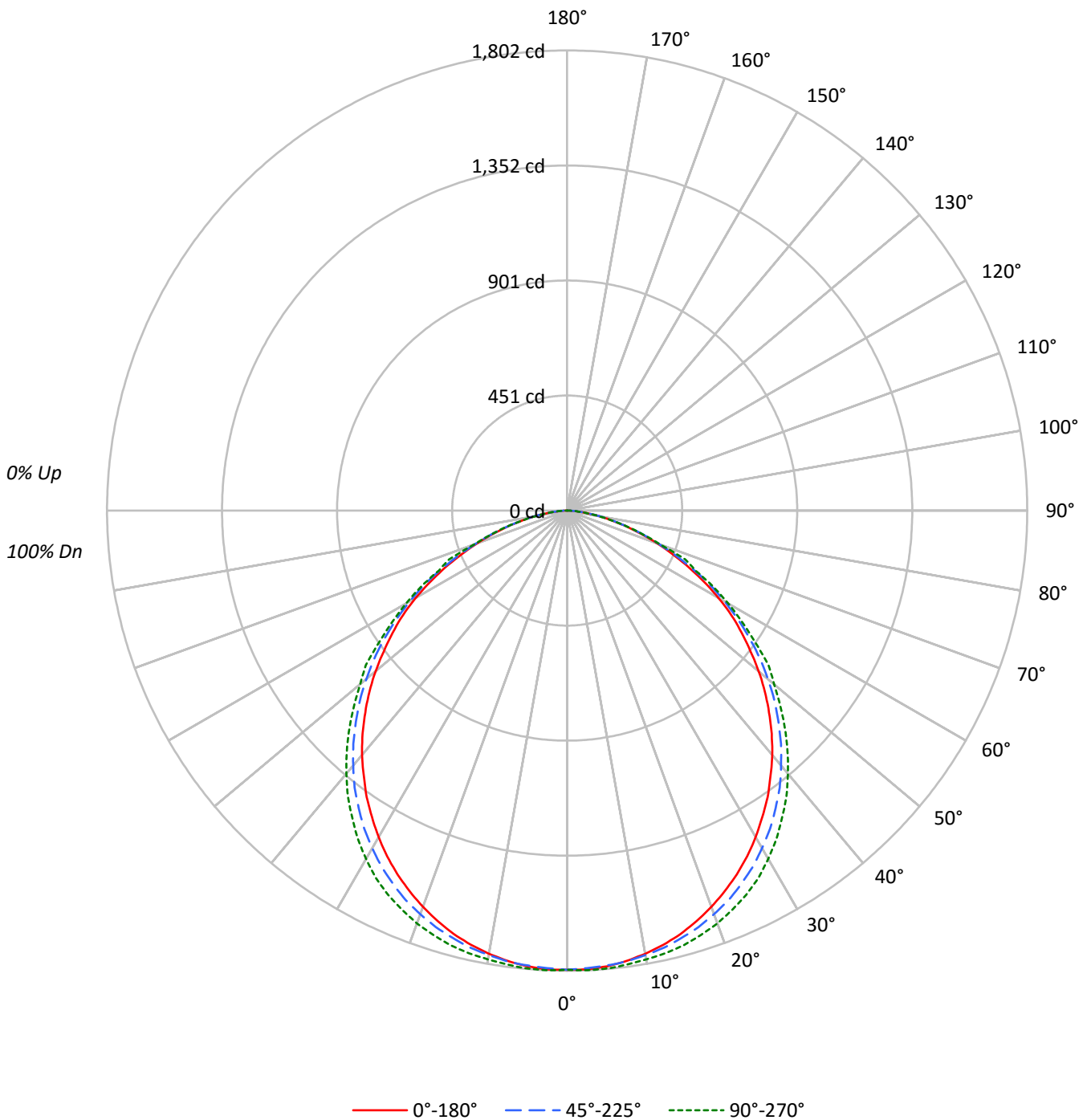
Input Watts (W): 35.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2420	2420	2420
5°	2420	2415	2431
10°	2407	2414	2438
15°	2392	2413	2454
20°	2364	2409	2463
25°	2333	2395	2464
30°	2294	2372	2447
35°	2249	2337	2411
40°	2195	2289	2362
45°	2128	2226	2296
50°	2051	2148	2214
55°	1957	2046	2107
60°	1844	1914	1961
65°	1675	1730	1763
70°	1471	1505	1525
75°	1242	1260	1268
80°	993	1006	979
85°	668	695	668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.4	3.5
10°-20°	490.1	10.2
20°-30°	743.6	15.4
30°-40°	887.8	18.4
40°-50°	898.8	18.6
50°-60°	776.9	16.1
60°-70°	538.5	11.2
70°-80°	260.5	5.4
80°-90°	57.3	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1404.2	29.1
0°-40°	2292.0	47.5
0°-60°	3967.7	82.2
0°-90°	4824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4824.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1798	1798	1798	1798	1798	
5°	1791	1790	1788	1797	1800	170
15°	1717	1720	1733	1753	1762	484
25°	1572	1582	1613	1646	1660	724
35°	1369	1381	1423	1459	1468	855
45°	1118	1134	1170	1200	1206	862
55°	834	843	872	909	898	746
65°	526	531	544	552	554	521
75°	239	241	242	241	244	256
85°	43	47	45	43	43	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1798.4	1798.4	1798.4	1798.4	1798.4
2.5°	1798.4	1796.6	1793.2	1798.4	1801.8
5°	1791.4	1789.7	1788.0	1796.6	1800.1
7.5°	1779.3	1779.3	1781.0	1789.7	1793.2
10°	1762.0	1763.7	1767.2	1781.0	1784.5
12.5°	1741.2	1744.7	1753.4	1768.9	1775.9
15°	1717.0	1720.5	1732.6	1753.4	1762.0
17.5°	1685.8	1692.8	1710.1	1734.3	1743.0
20°	1651.2	1659.9	1682.4	1710.1	1720.5
22.5°	1613.2	1621.8	1651.2	1680.7	1691.0
25°	1571.6	1582.0	1613.2	1646.0	1659.9
27.5°	1526.6	1538.7	1573.3	1608.0	1621.8
30°	1476.4	1490.3	1526.6	1563.0	1575.1
32.5°	1422.8	1436.6	1478.1	1512.8	1524.9
35°	1369.1	1381.2	1422.8	1459.1	1467.8
37.5°	1308.5	1322.4	1367.4	1398.5	1410.6
40°	1249.7	1263.5	1303.3	1334.5	1344.9
42.5°	1185.6	1199.5	1239.3	1268.7	1277.4
45°	1118.1	1133.7	1170.1	1199.5	1206.4
47.5°	1050.6	1062.7	1100.8	1126.8	1132.0
50°	979.7	991.8	1026.4	1052.4	1057.5
52.5°	905.2	924.3	952.0	971.0	993.5
55°	834.3	842.9	872.3	908.7	898.3
57.5°	763.3	768.5	792.7	808.3	811.8
60°	685.4	692.3	711.4	720.0	728.7
62.5°	604.1	609.3	631.8	640.4	643.9
65°	526.2	531.4	543.5	552.1	553.9
67.5°	446.6	451.8	462.1	469.1	500.2
70°	373.9	377.3	382.5	396.4	387.7
72.5°	304.6	306.4	311.6	311.6	313.3
75°	238.9	240.6	242.3	240.6	244.0
77.5°	178.3	181.7	183.5	181.7	180.0
80°	128.1	131.5	129.8	126.4	126.4
82.5°	83.1	84.8	83.1	81.3	81.3
85°	43.3	46.7	45.0	43.3	43.3
87.5°	15.6	17.3	19.0	20.8	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)