

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: P296796

Luminaire Tested: **D3X-WD-50L82765-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296796
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-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4423.0 lumens
Efficiency: N/A
Efficacy: 127.5 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

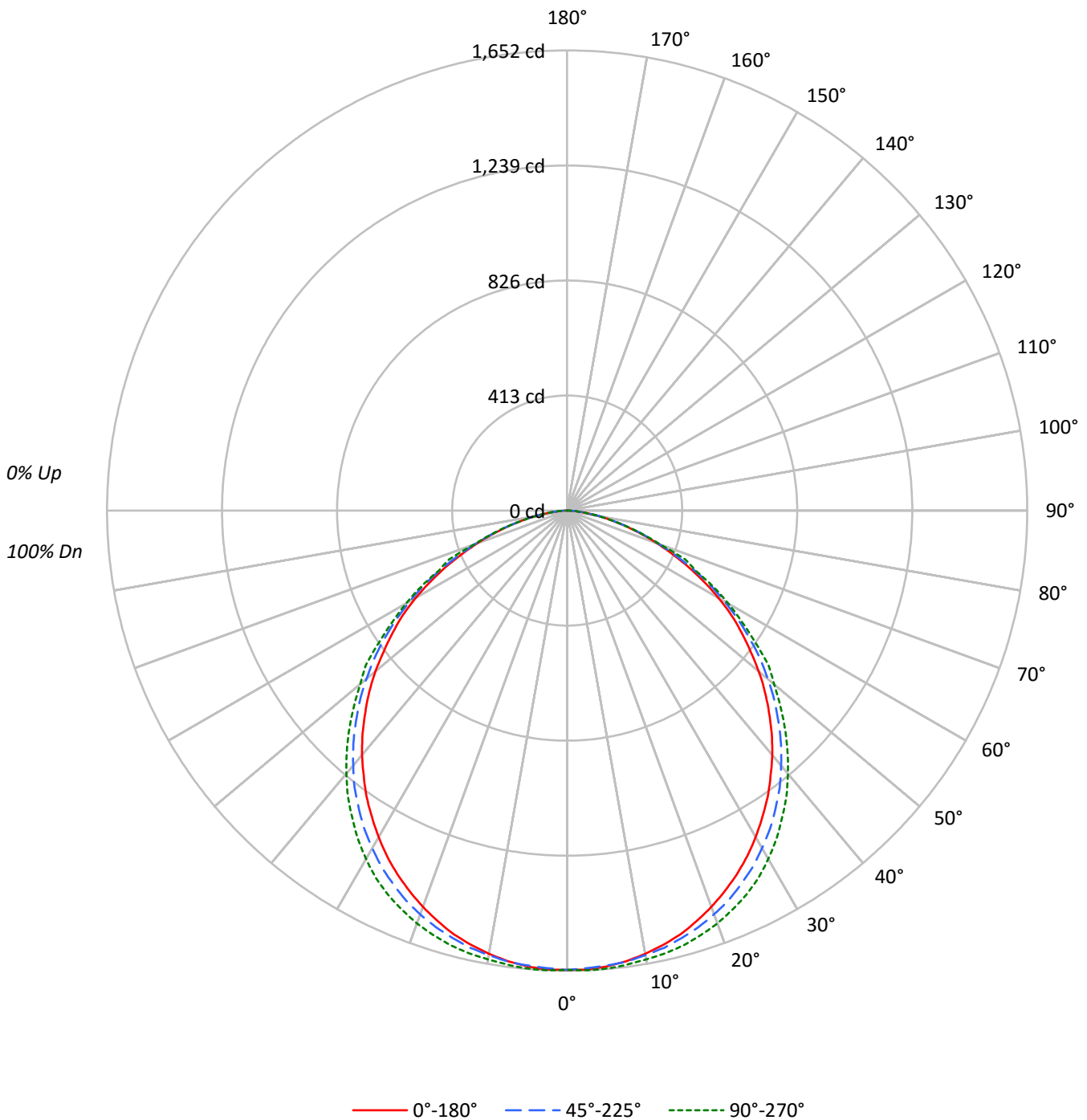
Input Watts (W): 34.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2219	2219	2219
5°	2218	2214	2229
10°	2207	2214	2235
15°	2193	2213	2250
20°	2168	2209	2259
25°	2139	2196	2259
30°	2103	2175	2244
35°	2062	2143	2211
40°	2012	2099	2166
45°	1951	2041	2105
50°	1880	1970	2030
55°	1794	1876	1932
60°	1691	1755	1798
65°	1536	1586	1617
70°	1349	1380	1399
75°	1138	1155	1163
80°	910	922	897
85°	613	638	613



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	3.5
10°-20°	449.4	10.2
20°-30°	681.8	15.4
30°-40°	814.0	18.4
40°-50°	824.1	18.6
50°-60°	712.3	16.1
60°-70°	493.7	11.2
70°-80°	238.9	5.4
80°-90°	52.5	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°	1287.5	29.1
0°-40°	2101.5	47.5
0°-60°	3637.9	82.2
0°-90°	4423.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4423.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1649	1649	1649	1649	1649	
5°	1642	1641	1639	1647	1650	156
15°	1574	1577	1589	1608	1616	444
25°	1441	1450	1479	1509	1522	664
35°	1255	1266	1304	1338	1346	784
45°	1025	1040	1073	1100	1106	791
55°	765	773	800	833	824	684
65°	482	487	498	506	508	477
75°	219	221	222	221	224	235
85°	40	43	41	40	40	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1648.9	1648.9	1648.9	1648.9	1648.9
2.5°	1648.9	1647.3	1644.1	1648.9	1652.0
5°	1642.5	1640.9	1639.3	1647.3	1650.4
7.5°	1631.4	1631.4	1633.0	1640.9	1644.1
10°	1615.5	1617.1	1620.3	1633.0	1636.2
12.5°	1596.5	1599.7	1607.6	1621.9	1628.2
15°	1574.3	1577.4	1588.6	1607.6	1615.5
17.5°	1545.7	1552.1	1567.9	1590.1	1598.1
20°	1514.0	1521.9	1542.5	1567.9	1577.4
22.5°	1479.1	1487.0	1514.0	1540.9	1550.5
25°	1441.0	1450.5	1479.1	1509.2	1521.9
27.5°	1399.7	1410.8	1442.6	1474.3	1487.0
30°	1353.7	1366.4	1399.7	1433.0	1444.1
32.5°	1304.5	1317.2	1355.3	1387.0	1398.1
35°	1255.3	1266.4	1304.5	1337.8	1345.8
37.5°	1199.8	1212.4	1253.7	1282.3	1293.4
40°	1145.8	1158.5	1195.0	1223.6	1233.1
42.5°	1087.1	1099.8	1136.3	1163.2	1171.2
45°	1025.2	1039.5	1072.8	1099.8	1106.1
47.5°	963.3	974.4	1009.3	1033.1	1037.9
50°	898.2	909.3	941.1	964.9	969.6
52.5°	830.0	847.4	872.8	890.3	910.9
55°	764.9	772.9	799.8	833.2	823.6
57.5°	699.9	704.6	726.8	741.1	744.3
60°	628.4	634.8	652.2	660.2	668.1
62.5°	553.9	558.6	579.2	587.2	590.4
65°	482.4	487.2	498.3	506.2	507.8
67.5°	409.4	414.2	423.7	430.1	458.6
70°	342.8	346.0	350.7	363.4	355.5
72.5°	279.3	280.9	285.7	285.7	287.2
75°	219.0	220.6	222.2	220.6	223.8
77.5°	163.5	166.6	168.2	166.6	165.0
80°	117.4	120.6	119.0	115.8	115.8
82.5°	76.2	77.8	76.2	74.6	74.6
85°	39.7	42.8	41.3	39.7	39.7
87.5°	14.3	15.9	17.5	19.0	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)