

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: P296778

Luminaire Tested: **D3X-WD-42L82765-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296778
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-42L82765-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: 3735.0 lumens
Efficiency: N/A
Efficacy: 129.2 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

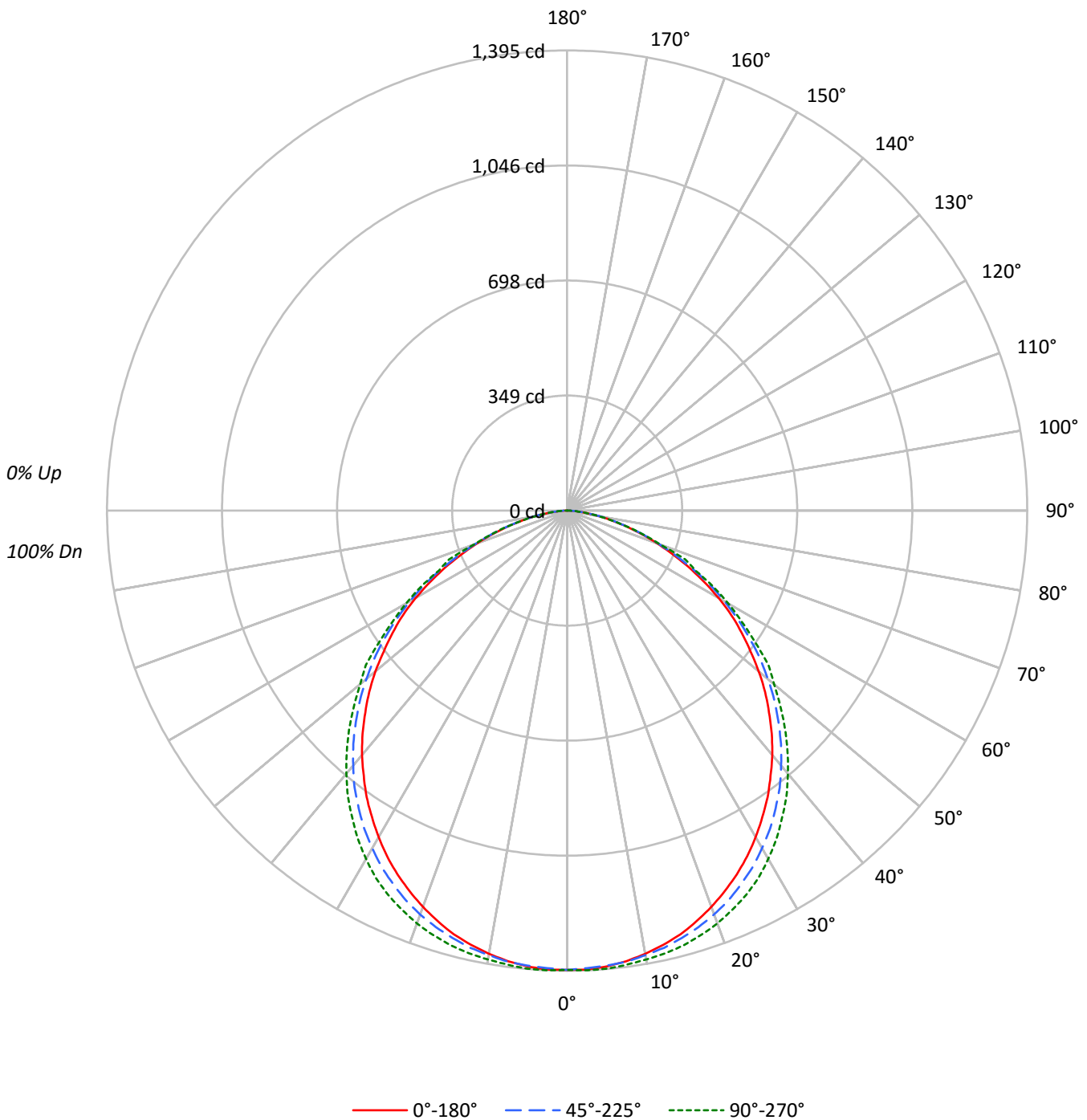
Input Watts (W): 28.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296778

CATALOG NUMBER: D3X-WD-42L82765-LD5-UNV-24-T1-W2A-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P296778

CATALOG NUMBER: D3X-WD-42L82765-LD5-UNV-24-T1-W2A-3000K

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°	1873	1873	1873
5°	1873	1870	1882
10°	1864	1869	1888
15°	1852	1869	1900
20°	1831	1865	1907
25°	1806	1854	1908
30°	1776	1836	1895
35°	1741	1809	1867
40°	1700	1772	1829
45°	1647	1724	1777
50°	1588	1663	1714
55°	1515	1584	1631
60°	1428	1482	1518
65°	1297	1340	1365
70°	1139	1165	1181
75°	961	975	983
80°	769	779	758
85°	517	537	517



TEST NUMBER: P296778

CATALOG NUMBER: D3X-WD-42L82765-LD5-UNV-24-T1-W2A-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.0	3.5
10°-20°	379.5	10.2
20°-30°	575.8	15.4
30°-40°	687.4	18.4
40°-50°	695.9	18.6
50°-60°	601.5	16.1
60°-70°	416.9	11.2
70°-80°	201.7	5.4
80°-90°	44.3	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°	1087.2	29.1
0°-40°	1774.6	47.5
0°-60°	3072.0	82.2
0°-90°	3735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1392	1392	1392	1392	1392	
5°	1387	1386	1384	1391	1394	132
15°	1329	1332	1342	1358	1364	375
25°	1217	1225	1249	1274	1285	560
35°	1060	1069	1102	1130	1136	662
45°	866	878	906	929	934	668
55°	646	653	675	704	696	577
65°	407	411	421	428	429	403
75°	185	186	188	186	189	198
85°	34	36	35	34	34	43
90°	0	0	0	0	0	



TEST NUMBER: P296778

CATALOG NUMBER: D3X-WD-42L82765-LD5-UNV-24-T1-W2A-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1392.4	1392.4	1392.4	1392.4	1392.4
2.5°	1392.4	1391.0	1388.4	1392.4	1395.1
5°	1387.0	1385.7	1384.3	1391.0	1393.7
7.5°	1377.6	1377.6	1379.0	1385.7	1388.4
10°	1364.2	1365.6	1368.3	1379.0	1381.7
12.5°	1348.2	1350.8	1357.5	1369.6	1375.0
15°	1329.4	1332.1	1341.5	1357.5	1364.2
17.5°	1305.3	1310.6	1324.0	1342.8	1349.5
20°	1278.5	1285.2	1302.6	1324.0	1332.1
22.5°	1249.0	1255.7	1278.5	1301.3	1309.3
25°	1216.8	1224.9	1249.0	1274.5	1285.2
27.5°	1182.0	1191.4	1218.2	1245.0	1255.7
30°	1143.1	1153.8	1182.0	1210.1	1219.5
32.5°	1101.6	1112.3	1144.5	1171.3	1180.6
35°	1060.0	1069.4	1101.6	1129.7	1136.4
37.5°	1013.1	1023.8	1058.7	1082.8	1092.2
40°	967.6	978.3	1009.1	1033.2	1041.3
42.5°	918.0	928.7	959.5	982.3	989.0
45°	865.7	877.8	905.9	928.7	934.1
47.5°	813.5	822.8	852.3	872.4	876.4
50°	758.5	767.9	794.7	814.8	818.8
52.5°	700.9	715.6	737.1	751.8	769.2
55°	645.9	652.6	675.4	703.6	695.5
57.5°	591.0	595.0	613.8	625.8	628.5
60°	530.7	536.0	550.8	557.5	564.2
62.5°	467.7	471.7	489.1	495.8	498.5
65°	407.4	411.4	420.8	427.5	428.8
67.5°	345.8	349.8	357.8	363.2	387.3
70°	289.5	292.1	296.2	306.9	300.2
72.5°	235.9	237.2	241.2	241.2	242.6
75°	184.9	186.3	187.6	186.3	189.0
77.5°	138.0	140.7	142.1	140.7	139.4
80°	99.2	101.8	100.5	97.8	97.8
82.5°	64.3	65.7	64.3	63.0	63.0
85°	33.5	36.2	34.8	33.5	33.5
87.5°	12.1	13.4	14.7	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)