

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: P296779

Luminaire Tested: **D3X-WD-42L82765-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296779  
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-3500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3863.0 lumens  
Efficiency: N/A  
Efficacy: 132.3 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

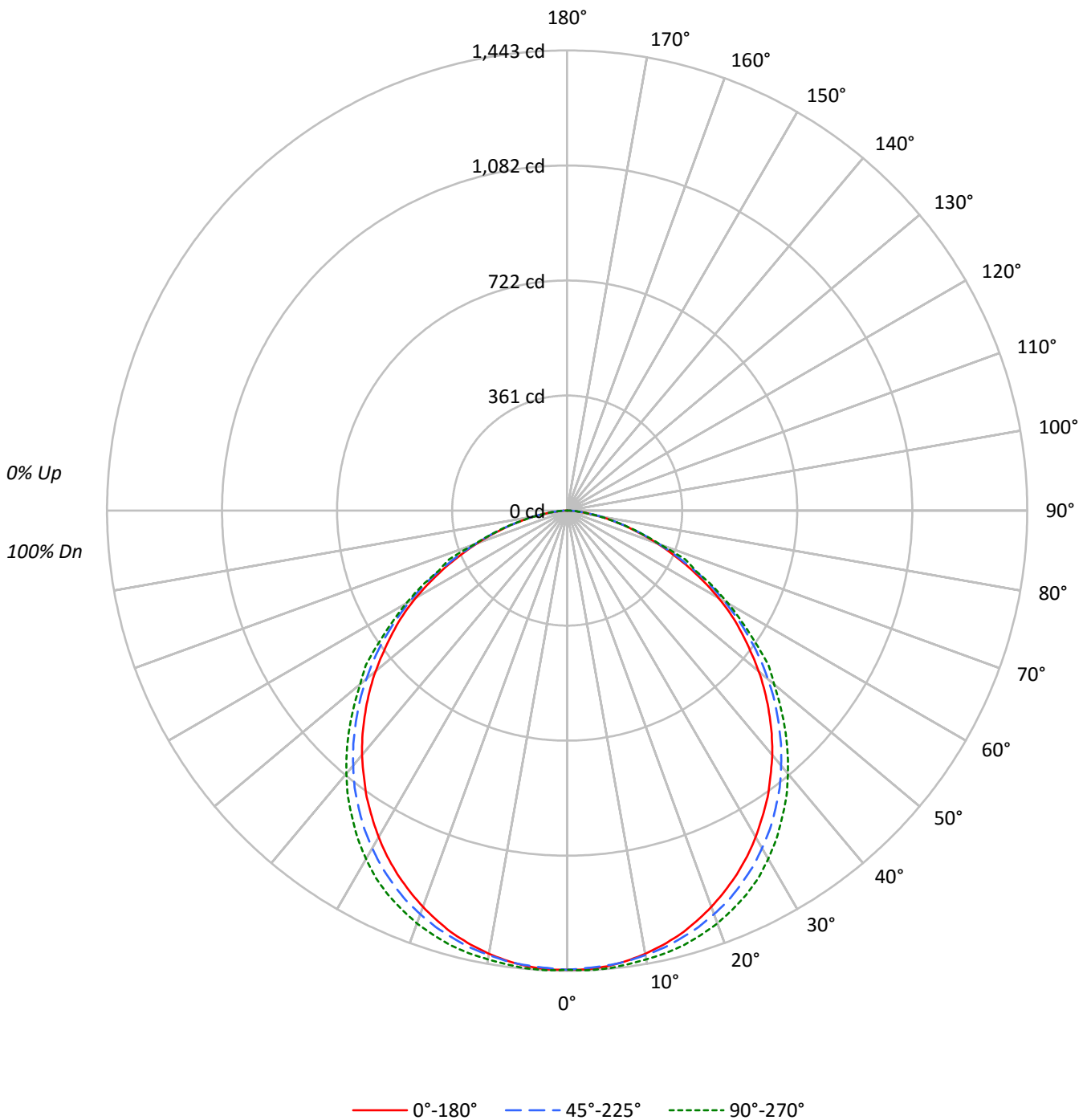
Input Watts (W): 29.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1938	1938	1938
5°	1938	1934	1947
10°	1928	1933	1952
15°	1915	1933	1965
20°	1893	1929	1973
25°	1868	1918	1973
30°	1837	1899	1960
35°	1801	1871	1931
40°	1758	1833	1892
45°	1704	1783	1838
50°	1642	1720	1773
55°	1567	1639	1688
60°	1477	1533	1570
65°	1342	1386	1412
70°	1178	1205	1221
75°	994	1009	1016
80°	795	806	784
85°	536	556	536



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.5	3.5
10°-20°	392.5	10.2
20°-30°	595.5	15.4
30°-40°	710.9	18.4
40°-50°	719.8	18.6
50°-60°	622.1	16.1
60°-70°	431.2	11.2
70°-80°	208.6	5.4
80°-90°	45.9	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°	1124.4	29.1
0°-40°	1835.4	47.5
0°-60°	3177.3	82.2
0°-90°	3863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3863.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1440	1440	1440	1440	1440	
5°	1435	1433	1432	1439	1442	136
15°	1375	1378	1387	1404	1411	387
25°	1258	1267	1292	1318	1329	580
35°	1096	1106	1139	1168	1175	685
45°	895	908	937	960	966	691
55°	668	675	699	728	719	597
65°	421	426	435	442	444	417
75°	191	193	194	193	195	205
85°	35	37	36	35	35	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1440.1	1440.1	1440.1	1440.1	1440.1
2.5°	1440.1	1438.7	1435.9	1440.1	1442.9
5°	1434.6	1433.2	1431.8	1438.7	1441.5
7.5°	1424.9	1424.9	1426.2	1433.2	1435.9
10°	1411.0	1412.4	1415.1	1426.2	1429.0
12.5°	1394.4	1397.1	1404.1	1416.5	1422.1
15°	1375.0	1377.7	1387.4	1404.1	1411.0
17.5°	1350.0	1355.6	1369.4	1388.8	1395.7
20°	1322.3	1329.2	1347.2	1369.4	1377.7
22.5°	1291.8	1298.7	1322.3	1345.8	1354.2
25°	1258.5	1266.8	1291.8	1318.1	1329.2
27.5°	1222.5	1232.2	1259.9	1287.6	1298.7
30°	1182.3	1193.4	1222.5	1251.6	1261.3
32.5°	1139.3	1150.4	1183.7	1211.4	1221.1
35°	1096.4	1106.1	1139.3	1168.4	1175.4
37.5°	1047.8	1058.9	1095.0	1119.9	1129.6
40°	1000.7	1011.8	1043.7	1068.6	1077.0
42.5°	949.4	960.5	992.4	1016.0	1022.9
45°	895.4	907.9	937.0	960.5	966.1
47.5°	841.3	851.0	881.5	902.3	906.5
50°	784.5	794.2	821.9	842.7	846.9
52.5°	724.9	740.1	762.3	777.6	795.6
55°	668.1	675.0	698.6	727.7	719.4
57.5°	611.2	615.4	634.8	647.3	650.1
60°	548.9	554.4	569.7	576.6	583.5
62.5°	483.7	487.9	505.9	512.8	515.6
65°	421.4	425.5	435.2	442.1	443.5
67.5°	357.6	361.8	370.1	375.6	400.6
70°	299.4	302.2	306.3	317.4	310.5
72.5°	243.9	245.3	249.5	249.5	250.9
75°	191.3	192.7	194.0	192.7	195.4
77.5°	142.8	145.5	146.9	145.5	144.1
80°	102.6	105.3	104.0	101.2	101.2
82.5°	66.5	67.9	66.5	65.1	65.1
85°	34.7	37.4	36.0	34.7	34.7
87.5°	12.5	13.9	15.2	16.6	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)