

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: P297342

Luminaire Tested: **D3X-WO-42L82765-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297342  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-42L82765-LD5-UNV-24-T1-W2A-5000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4339.0 lumens  
Efficiency: N/A  
Efficacy: 145.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

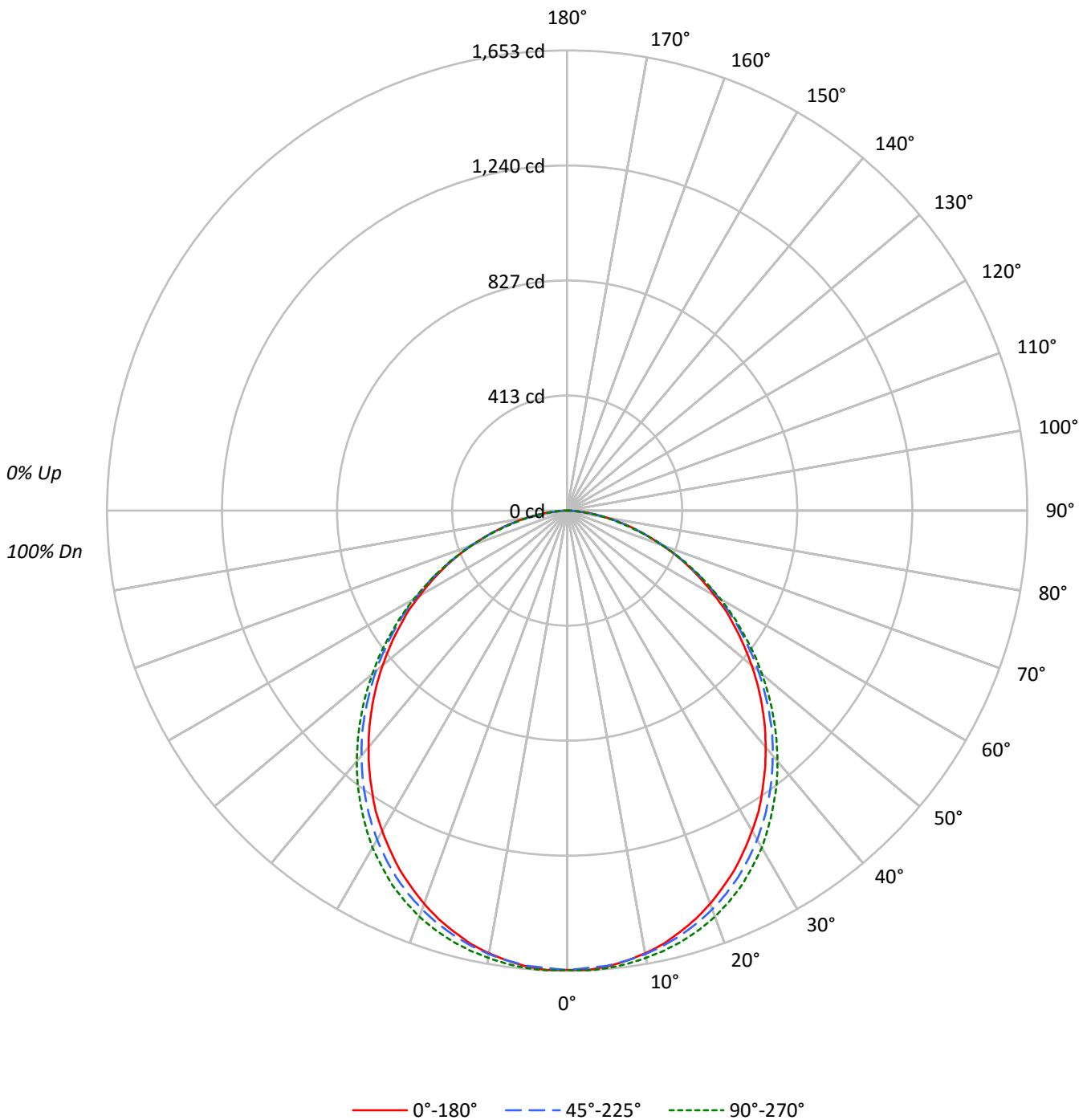
Input Watts (W): 29.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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°	2220	2220	2220
5°	2221	2217	2229
10°	2207	2211	2229
15°	2183	2199	2229
20°	2151	2183	2223
25°	2113	2157	2205
30°	2064	2121	2173
35°	2009	2074	2122
40°	1949	2018	2064
45°	1883	1952	1994
50°	1811	1879	1912
55°	1735	1790	1817
60°	1648	1691	1711
65°	1554	1578	1587
70°	1426	1443	1426
75°	1284	1277	1238
80°	1087	1076	1042
85°	812	790	699



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.2	3.6
10°-20°	446.3	10.3
20°-30°	669.2	15.4
30°-40°	788.1	18.2
40°-50°	788.2	18.2
50°-60°	680.1	15.7
60°-70°	489.4	11.3
70°-80°	259.6	6.0
80°-90°	61.9	1.4
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°	1271.8	29.3
0°-40°	2059.8	47.5
0°-60°	3528.2	81.3
0°-90°	4339.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4339.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1644	1643	1641	1647	1650	156
15°	1567	1571	1579	1595	1600	442
25°	1424	1432	1453	1478	1485	655
35°	1223	1238	1263	1285	1292	765
45°	990	1003	1026	1044	1048	763
55°	740	747	763	776	775	662
65°	488	490	496	498	498	483
75°	247	244	246	240	238	263
85°	53	53	51	47	45	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1650.2	1650.2	1650.2	1650.2	1650.2
2.5°	1651.7	1648.7	1644.4	1650.2	1653.1
5°	1644.4	1642.9	1641.4	1647.3	1650.2
7.5°	1631.2	1632.7	1631.2	1640.0	1642.9
10°	1615.1	1616.6	1618.0	1628.3	1631.2
12.5°	1594.7	1596.1	1600.5	1613.7	1618.0
15°	1566.9	1571.3	1578.6	1594.7	1600.5
17.5°	1537.7	1543.5	1553.7	1572.7	1578.6
20°	1502.6	1509.9	1524.5	1545.0	1552.3
22.5°	1463.1	1470.4	1490.9	1512.8	1520.1
25°	1423.6	1432.4	1452.9	1477.7	1485.0
27.5°	1376.9	1388.6	1410.5	1435.3	1441.2
30°	1328.6	1338.9	1365.2	1388.6	1398.8
32.5°	1280.4	1290.6	1315.5	1338.9	1346.2
35°	1223.4	1238.0	1262.9	1284.8	1292.1
37.5°	1167.9	1181.0	1207.3	1229.2	1236.6
40°	1109.4	1121.1	1148.9	1169.3	1175.2
42.5°	1050.9	1062.6	1090.4	1106.5	1112.3
45°	989.5	1002.7	1026.1	1043.6	1048.0
47.5°	928.1	938.4	960.3	976.4	982.2
50°	865.3	875.5	897.5	910.6	913.5
52.5°	802.4	809.8	830.2	841.9	846.3
55°	739.6	746.9	763.0	776.1	774.7
57.5°	679.7	682.6	698.7	707.4	707.4
60°	612.4	615.4	628.5	634.4	635.8
62.5°	549.6	554.0	564.2	565.7	565.7
65°	488.2	489.7	495.5	498.4	498.4
67.5°	426.8	425.3	431.2	431.2	429.7
70°	362.5	365.4	366.9	364.0	362.5
72.5°	304.0	302.6	302.6	301.1	301.1
75°	247.0	244.1	245.6	239.7	238.2
77.5°	194.4	190.0	188.6	185.6	182.7
80°	140.3	140.3	138.9	135.9	134.5
82.5°	93.5	93.5	92.1	89.2	86.2
85°	52.6	52.6	51.2	46.8	45.3
87.5°	17.5	17.5	17.5	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)