

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: P297057

Luminaire Tested: **D3X-WG-42L82765-LD5-UNV-24-T1-W2A-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297057  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-42L82765-LD5-UNV-24-T1-W2A-2700K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3636.0 lumens  
Efficiency: N/A  
Efficacy: 124.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

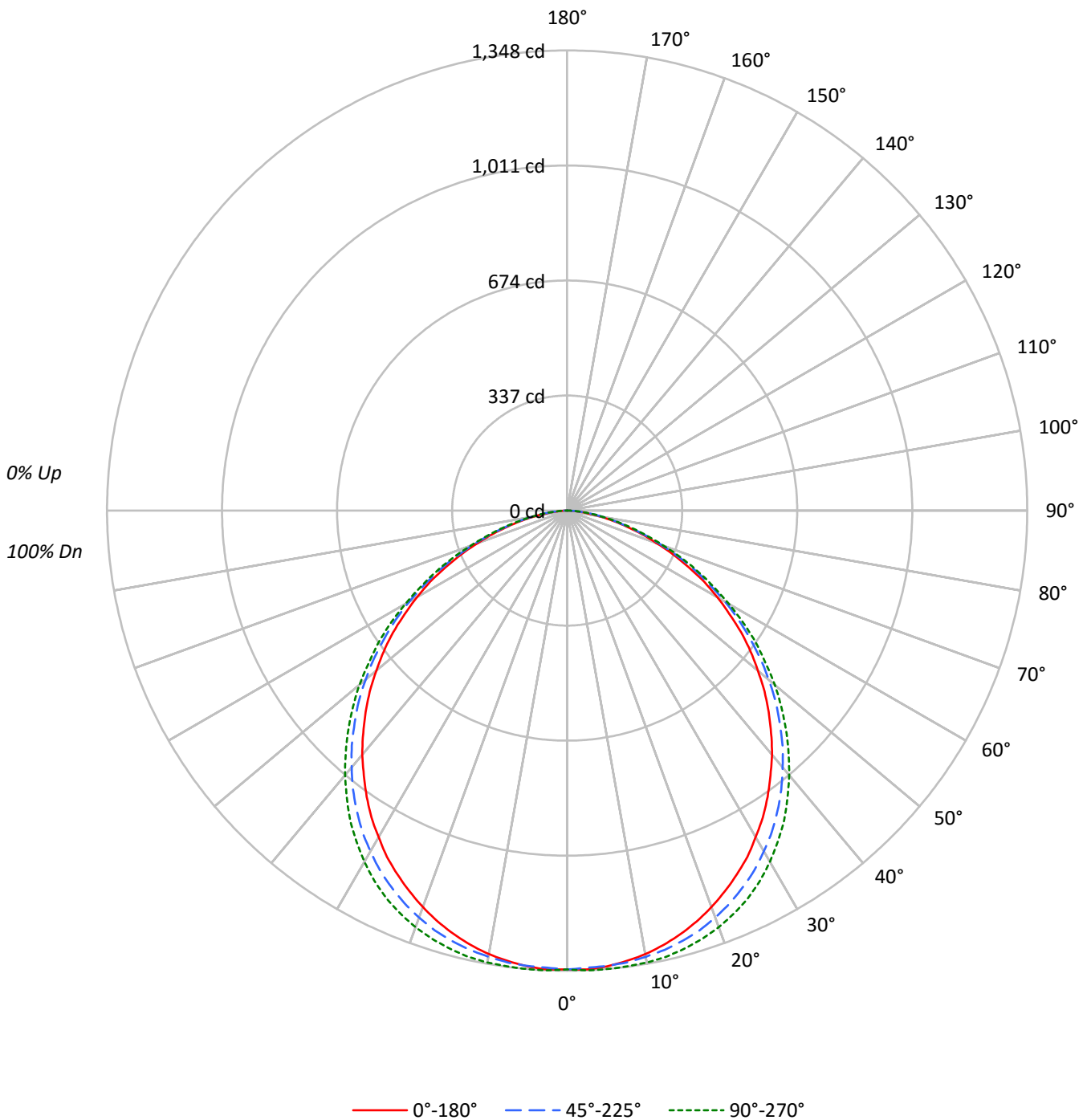
Input Watts (W): 29.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
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	47	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	27	38	32	27	37	31	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1809	1809	1809
5°	1810	1808	1821
10°	1803	1813	1837
15°	1789	1818	1851
20°	1770	1816	1859
25°	1746	1808	1860
30°	1716	1791	1846
35°	1681	1765	1821
40°	1640	1725	1777
45°	1589	1675	1725
50°	1527	1614	1663
55°	1460	1534	1583
60°	1367	1437	1472
65°	1248	1315	1348
70°	1096	1153	1184
75°	927	975	1009
80°	737	807	828
85°	503	604	584



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.7	3.5
10°-20°	368.7	10.1
20°-30°	560.4	15.4
30°-40°	668.6	18.4
40°-50°	675.3	18.6
50°-60°	581.8	16.0
60°-70°	405.6	11.2
70°-80°	201.0	5.5
80°-90°	46.9	1.3
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°	1056.8	29.1
0°-40°	1725.4	47.5
0°-60°	2982.6	82.0
0°-90°	3636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3636.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1344	1344	1344	1344	1344	
5°	1340	1339	1339	1346	1348	127
15°	1284	1291	1305	1322	1328	362
25°	1176	1192	1218	1243	1253	542
35°	1024	1041	1074	1099	1108	640
45°	835	853	880	901	906	644
55°	623	636	654	670	675	555
65°	392	400	413	417	423	389
75°	178	181	188	192	194	192
85°	33	39	39	36	38	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1344.2	1344.2	1344.2	1344.2	1344.2
2.5°	1345.5	1342.8	1340.2	1345.5	1348.1
5°	1340.2	1338.9	1338.9	1345.5	1348.1
7.5°	1331.1	1331.1	1335.0	1344.2	1346.8
10°	1319.4	1322.0	1327.2	1340.2	1344.2
12.5°	1303.8	1309.0	1318.1	1333.7	1338.9
15°	1284.2	1290.8	1305.1	1322.0	1328.5
17.5°	1262.1	1271.2	1289.4	1309.0	1315.5
20°	1236.0	1247.8	1268.6	1290.8	1298.6
22.5°	1207.4	1221.7	1245.2	1268.6	1277.7
25°	1176.1	1191.8	1217.8	1242.6	1253.0
27.5°	1143.6	1159.2	1187.9	1212.6	1223.0
30°	1104.5	1122.7	1152.7	1178.7	1187.9
32.5°	1066.7	1085.0	1116.2	1139.7	1148.8
35°	1023.7	1040.7	1074.5	1099.3	1108.4
37.5°	978.2	997.7	1030.3	1052.4	1060.2
40°	933.9	950.8	982.1	1004.2	1012.0
42.5°	884.4	902.6	933.9	953.4	959.9
45°	834.9	853.1	880.5	901.3	906.5
47.5°	784.1	801.0	828.4	845.3	850.5
50°	729.4	745.0	771.1	788.0	794.5
52.5°	677.3	691.6	713.8	728.1	732.0
55°	622.6	635.6	653.8	669.5	674.7
57.5°	564.0	578.3	595.2	608.3	612.2
60°	508.0	519.7	534.0	545.7	547.0
62.5°	453.3	458.5	471.5	481.9	483.2
65°	392.0	399.9	412.9	416.8	423.3
67.5°	336.0	341.2	351.7	356.9	362.1
70°	278.7	282.6	293.1	299.6	300.9
72.5°	229.2	230.5	238.4	243.6	244.9
75°	178.4	181.0	187.6	191.5	194.1
77.5°	135.5	138.1	143.3	145.9	145.9
80°	95.1	99.0	104.2	105.5	106.8
82.5°	61.2	66.4	70.3	71.6	69.0
85°	32.6	39.1	39.1	36.5	37.8
87.5°	11.7	14.3	15.6	16.9	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)