

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: P298041

Luminaire Tested: **D3X-WD-40L82765-LD5-UNV-22-T1-W2A-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298041  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-40L82765-LD5-UNV-22-T1-W2A-5500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3852.0 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

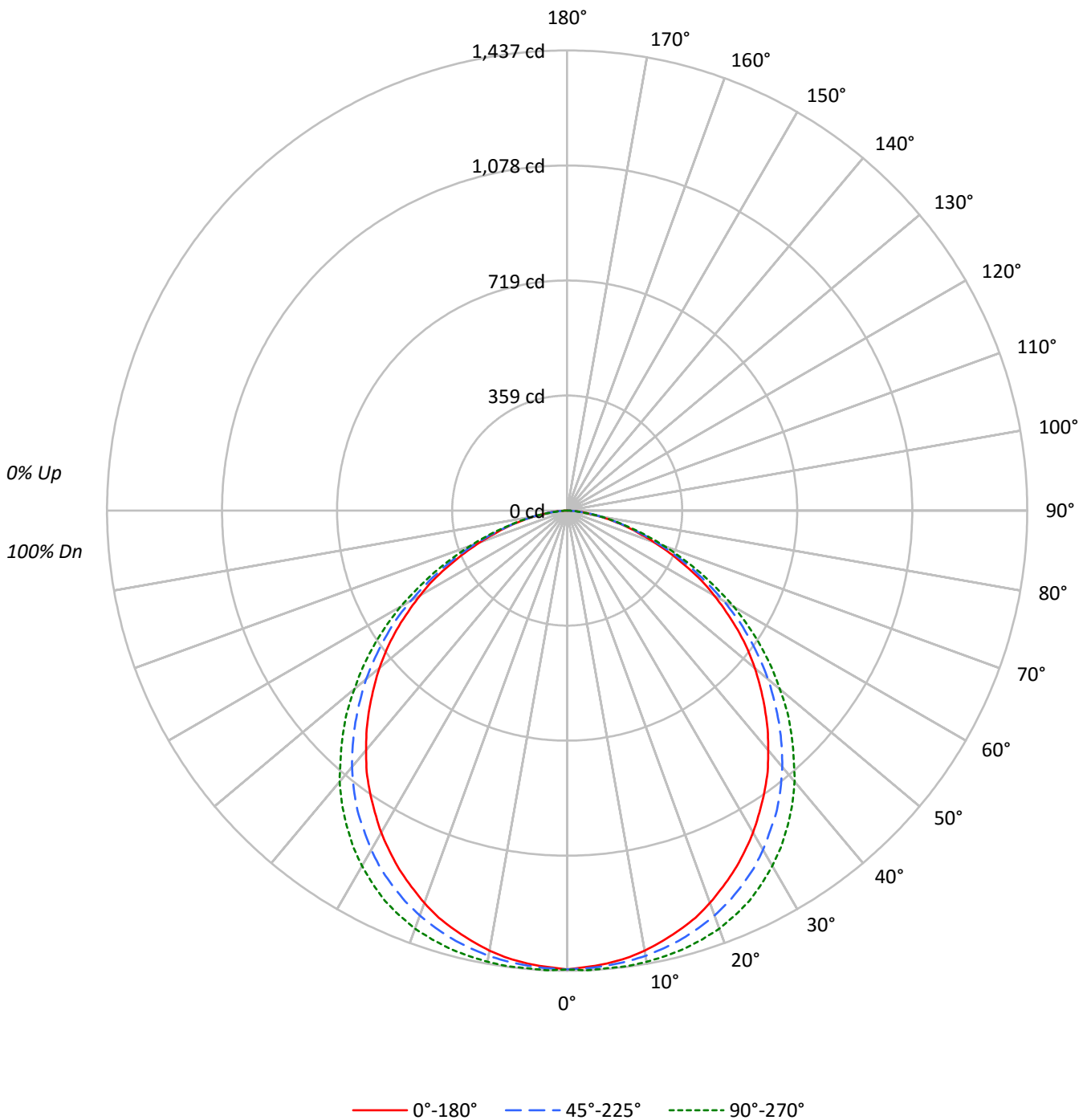
Input Watts (W): 33  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

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

	0°	45°	90°
0°	3855	3855	3855
5°	3837	3853	3876
10°	3813	3858	3909
15°	3778	3858	3945
20°	3735	3853	3978
25°	3675	3835	3995
30°	3608	3801	3982
35°	3528	3753	3944
40°	3431	3671	3882
45°	3322	3559	3772
50°	3203	3429	3628
55°	3054	3259	3463
60°	2857	3035	3236
65°	2588	2746	2918
70°	2284	2398	2529
75°	1962	2005	2091
80°	1574	1607	1638
85°	1152	1025	1025



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.8	3.5
10°-20°	391.1	10.2
20°-30°	594.9	15.4
30°-40°	711.7	18.5
40°-50°	719.5	18.7
50°-60°	619.2	16.1
60°-70°	427.5	11.1
70°-80°	207.3	5.4
80°-90°	44.9	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°	1121.8	29.1
0°-40°	1833.5	47.6
0°-60°	3172.2	82.4
0°-90°	3852.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3852.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1433	1433	1433	1433	1433	
5°	1420	1422	1426	1433	1435	135
15°	1356	1364	1385	1406	1416	383
25°	1238	1252	1292	1331	1346	570
35°	1074	1093	1142	1184	1200	671
45°	873	890	935	974	991	673
55°	651	661	695	726	738	580
65°	406	413	431	450	458	404
75°	189	184	193	199	201	200
85°	37	37	33	33	33	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1432.7	1432.7	1432.7	1432.7	1432.7
2.5°	1426.5	1426.5	1430.6	1434.8	1436.9
5°	1420.3	1422.4	1426.5	1432.7	1434.8
7.5°	1409.9	1412.0	1420.3	1430.6	1434.8
10°	1395.4	1399.5	1412.0	1424.4	1430.6
12.5°	1376.7	1385.0	1399.5	1416.1	1424.4
15°	1356.0	1364.3	1385.0	1405.8	1416.1
17.5°	1333.2	1341.5	1366.4	1393.3	1403.7
20°	1304.2	1316.6	1345.6	1376.7	1389.2
22.5°	1271.0	1287.6	1320.8	1353.9	1368.4
25°	1237.8	1252.3	1291.7	1331.1	1345.6
27.5°	1200.5	1217.1	1260.6	1300.0	1314.5
30°	1161.1	1177.7	1223.3	1266.8	1281.4
32.5°	1117.6	1138.3	1181.8	1227.5	1244.0
35°	1074.0	1092.7	1142.4	1183.9	1200.5
37.5°	1028.4	1045.0	1094.8	1138.3	1154.9
40°	976.6	995.2	1045.0	1088.5	1105.1
42.5°	926.8	945.5	991.1	1032.6	1047.1
45°	872.9	889.5	935.1	974.5	991.1
47.5°	819.0	837.7	877.0	916.4	933.0
50°	765.1	779.6	819.0	856.3	866.7
52.5°	709.1	721.5	756.8	790.0	804.5
55°	651.0	661.4	694.6	725.7	738.1
57.5°	588.8	601.3	632.4	655.2	669.7
60°	530.8	537.0	564.0	586.8	601.3
62.5°	472.7	474.8	495.5	518.3	526.6
65°	406.4	412.6	431.3	449.9	458.2
67.5°	346.3	352.5	367.0	381.5	387.7
70°	290.3	290.3	304.8	315.2	321.4
72.5°	234.3	236.4	246.7	253.0	259.2
75°	188.7	184.5	192.8	199.0	201.1
77.5°	141.0	138.9	145.1	147.2	151.4
80°	101.6	101.6	103.7	105.7	105.7
82.5°	66.3	66.3	68.4	64.3	62.2
85°	37.3	37.3	33.2	33.2	33.2
87.5°	12.4	12.4	12.4	14.5	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)