

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: P296774

Luminaire Tested: **D3X-WD-36L82765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296774  
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-36L82765-LD5-UNV-24-T1-W2A-5500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3585.0 lumens  
Efficiency: N/A  
Efficacy: 138.4 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

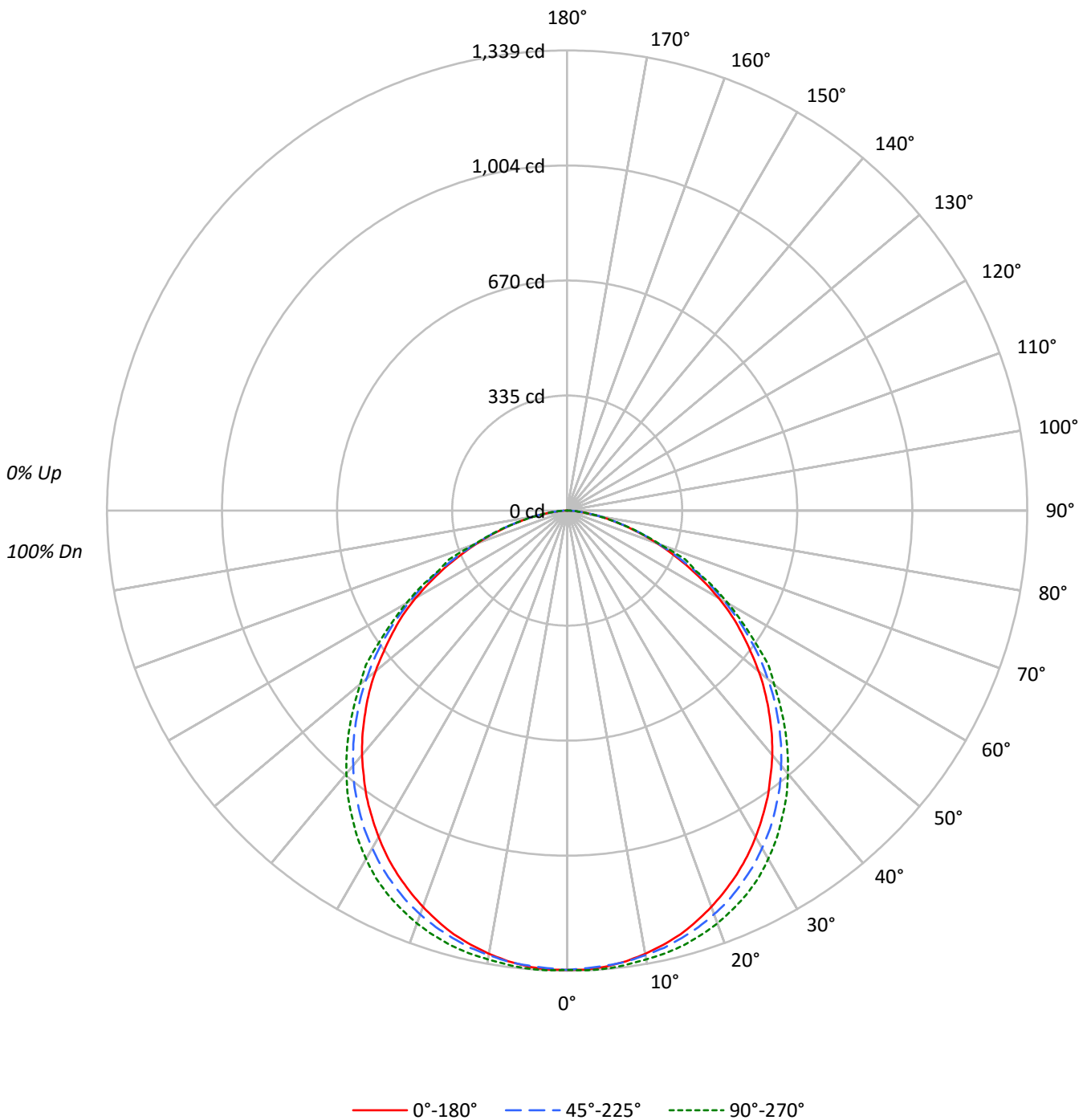
Input Watts (W): 25.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1798	1798	1798
5°	1798	1795	1807
10°	1789	1794	1812
15°	1777	1794	1824
20°	1757	1790	1831
25°	1734	1780	1831
30°	1705	1763	1819
35°	1671	1737	1792
40°	1631	1701	1756
45°	1581	1654	1706
50°	1524	1597	1645
55°	1454	1521	1566
60°	1371	1423	1457
65°	1245	1286	1310
70°	1093	1118	1133
75°	923	936	943
80°	738	748	728
85°	497	516	497



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.7	3.5
10°-20°	364.2	10.2
20°-30°	552.6	15.4
30°-40°	659.8	18.4
40°-50°	668.0	18.6
50°-60°	577.4	16.1
60°-70°	400.2	11.2
70°-80°	193.6	5.4
80°-90°	42.6	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°	1043.5	29.1
0°-40°	1703.3	47.5
0°-60°	2948.6	82.2
0°-90°	3585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3585.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1331	1330	1329	1335	1338	126
15°	1276	1279	1288	1303	1310	360
25°	1168	1176	1199	1223	1234	538
35°	1018	1026	1057	1084	1091	636
45°	831	842	870	891	896	641
55°	620	626	648	675	668	554
65°	391	395	404	410	412	387
75°	178	179	180	179	181	190
85°	32	35	33	32	32	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1336.5	1336.5	1336.5	1336.5	1336.5
2.5°	1336.5	1335.2	1332.6	1336.5	1339.0
5°	1331.3	1330.0	1328.7	1335.2	1337.7
7.5°	1322.3	1322.3	1323.6	1330.0	1332.6
10°	1309.5	1310.7	1313.3	1323.6	1326.2
12.5°	1294.0	1296.6	1303.0	1314.6	1319.7
15°	1276.0	1278.6	1287.6	1303.0	1309.5
17.5°	1252.9	1258.0	1270.9	1288.9	1295.3
20°	1227.1	1233.6	1250.3	1270.9	1278.6
22.5°	1198.8	1205.3	1227.1	1249.0	1256.7
25°	1168.0	1175.7	1198.8	1223.3	1233.6
27.5°	1134.5	1143.5	1169.2	1195.0	1205.3
30°	1097.2	1107.5	1134.5	1161.5	1170.5
32.5°	1057.3	1067.6	1098.5	1124.2	1133.2
35°	1017.5	1026.5	1057.3	1084.3	1090.8
37.5°	972.4	982.7	1016.2	1039.3	1048.3
40°	928.7	939.0	968.6	991.7	999.5
42.5°	881.1	891.4	921.0	942.9	949.3
45°	830.9	842.5	869.5	891.4	896.5
47.5°	780.8	789.8	818.1	837.4	841.2
50°	728.0	737.0	762.8	782.1	785.9
52.5°	672.7	686.9	707.5	721.6	738.3
55°	620.0	626.4	648.3	675.3	667.6
57.5°	567.3	571.1	589.1	600.7	603.3
60°	509.4	514.5	528.7	535.1	541.5
62.5°	448.9	452.8	469.5	475.9	478.5
65°	391.0	394.9	403.9	410.3	411.6
67.5°	331.9	335.7	343.4	348.6	371.7
70°	277.8	280.4	284.3	294.6	288.1
72.5°	226.4	227.7	231.5	231.5	232.8
75°	177.5	178.8	180.1	178.8	181.4
77.5°	132.5	135.1	136.3	135.1	133.8
80°	95.2	97.8	96.5	93.9	93.9
82.5°	61.7	63.0	61.7	60.5	60.5
85°	32.2	34.7	33.4	32.2	32.2
87.5°	11.6	12.9	14.1	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)