

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: P298031

Luminaire Tested: **D3X-WD-35L82765-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298031  
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-35L82765-LD5-UNV-22-T1-W2A-5000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3373.0 lumens  
Efficiency: N/A  
Efficacy: 117.9 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

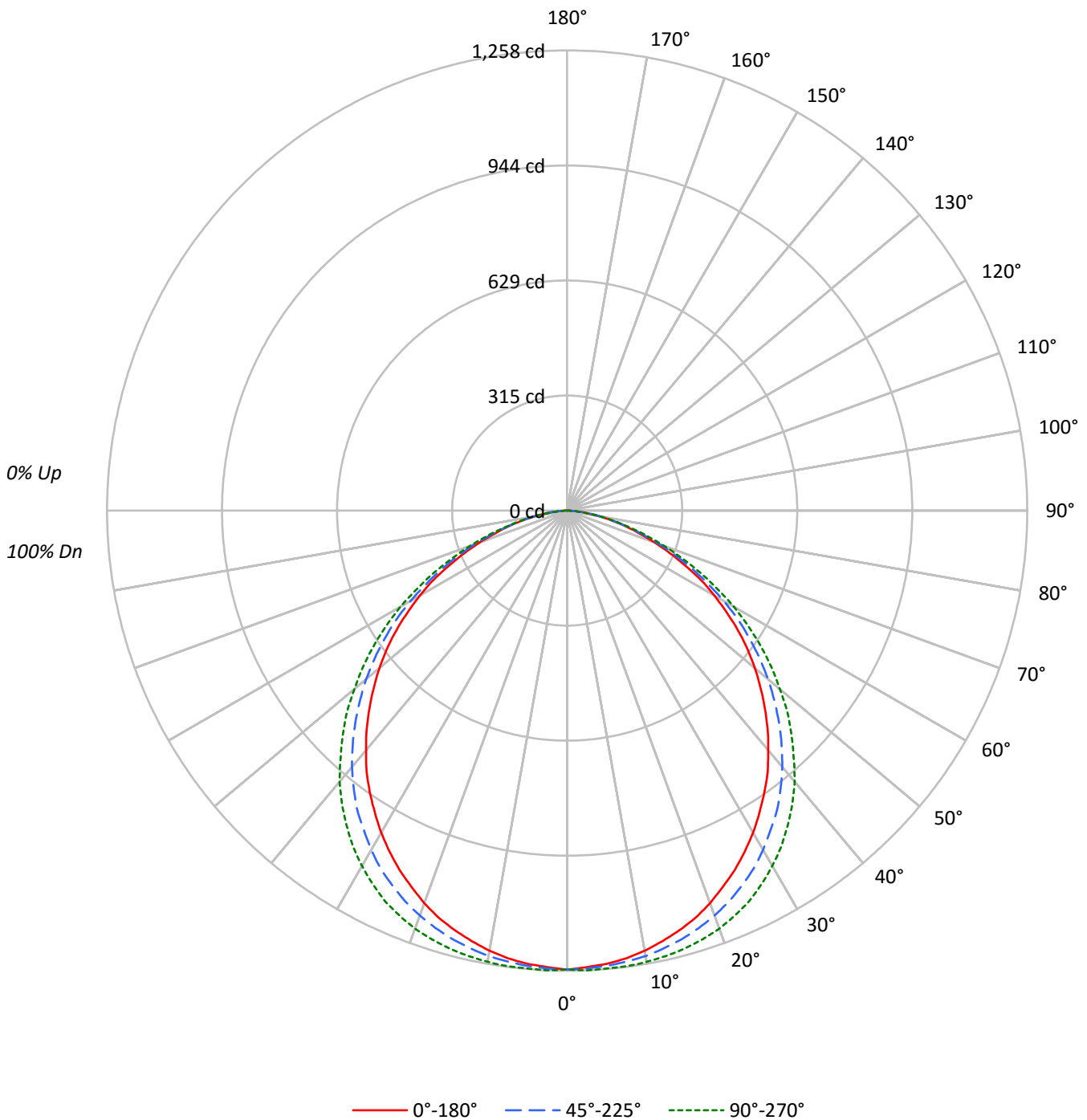
Input Watts (W): 28.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	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	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	31	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°	3376	3376	3376
5°	3360	3374	3394
10°	3339	3378	3423
15°	3308	3379	3455
20°	3270	3374	3483
25°	3218	3358	3499
30°	3159	3329	3486
35°	3090	3286	3453
40°	3004	3214	3399
45°	2909	3116	3303
50°	2804	3002	3177
55°	2675	2853	3032
60°	2502	2658	2834
65°	2266	2404	2555
70°	2000	2100	2214
75°	1718	1755	1831
80°	1379	1407	1435
85°	1010	895	895



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.9	3.5
10°-20°	342.5	10.2
20°-30°	520.9	15.4
30°-40°	623.2	18.5
40°-50°	630.1	18.7
50°-60°	542.2	16.1
60°-70°	374.3	11.1
70°-80°	181.5	5.4
80°-90°	39.4	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°	982.3	29.1
0°-40°	1605.5	47.6
0°-60°	2777.8	82.4
0°-90°	3373.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3373.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1255	1255	1255	1255	1255	
5°	1244	1246	1249	1255	1256	118
15°	1187	1195	1213	1231	1240	335
25°	1084	1097	1131	1166	1178	499
35°	940	957	1000	1037	1051	588
45°	764	779	819	853	868	590
55°	570	579	608	635	646	508
65°	356	361	378	394	401	354
75°	165	162	169	174	176	175
85°	33	33	29	29	29	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1254.6	1254.6	1254.6	1254.6	1254.6
2.5°	1249.1	1249.1	1252.7	1256.4	1258.2
5°	1243.7	1245.5	1249.1	1254.6	1256.4
7.5°	1234.6	1236.4	1243.7	1252.7	1256.4
10°	1221.9	1225.5	1236.4	1247.3	1252.7
12.5°	1205.5	1212.8	1225.5	1240.0	1247.3
15°	1187.4	1194.6	1212.8	1231.0	1240.0
17.5°	1167.4	1174.7	1196.5	1220.1	1229.1
20°	1142.0	1152.9	1178.3	1205.5	1216.4
22.5°	1112.9	1127.5	1156.5	1185.6	1198.3
25°	1083.9	1096.6	1131.1	1165.6	1178.3
27.5°	1051.2	1065.7	1103.9	1138.4	1151.1
30°	1016.7	1031.2	1071.2	1109.3	1122.0
32.5°	978.6	996.7	1034.9	1074.8	1089.3
35°	940.5	956.8	1000.4	1036.7	1051.2
37.5°	900.5	915.0	958.6	996.7	1011.3
40°	855.1	871.5	915.0	953.2	967.7
42.5°	811.6	827.9	867.8	904.2	916.9
45°	764.4	778.9	818.8	853.3	867.8
47.5°	717.1	733.5	768.0	802.5	817.0
50°	669.9	682.7	717.1	749.8	758.9
52.5°	620.9	631.8	662.7	691.7	704.4
55°	570.1	579.2	608.2	635.4	646.3
57.5°	515.6	526.5	553.7	573.7	586.4
60°	464.8	470.2	493.8	513.8	526.5
62.5°	413.9	415.8	433.9	453.9	461.2
65°	355.9	361.3	377.6	394.0	401.2
67.5°	303.2	308.6	321.4	334.1	339.5
70°	254.2	254.2	266.9	276.0	281.4
72.5°	205.2	207.0	216.1	221.5	226.9
75°	165.2	161.6	168.8	174.3	176.1
77.5°	123.5	121.6	127.1	128.9	132.5
80°	89.0	89.0	90.8	92.6	92.6
82.5°	58.1	58.1	59.9	56.3	54.5
85°	32.7	32.7	29.0	29.0	29.0
87.5°	10.9	10.9	10.9	12.7	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)