

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: P297747

Luminaire Tested: **D3X-WG-35L82765-LD5-UNV-14-T1-W2A-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297747  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-35L82765-LD5-UNV-14-T1-W2A-5500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3514.0 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

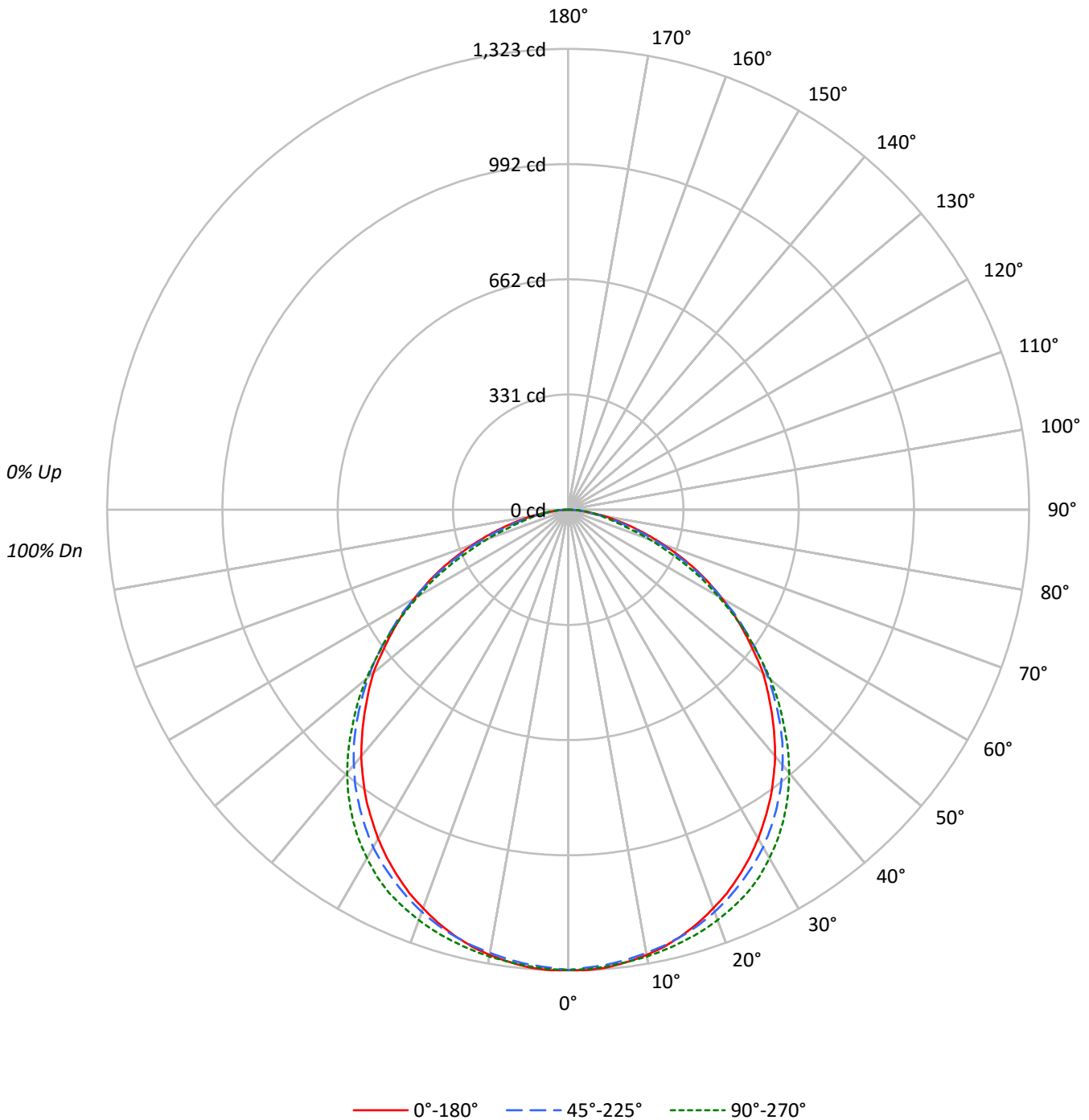
Input Watts (W): 34.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	3556	3556	3556
5°	3561	3540	3553
10°	3547	3530	3560
15°	3524	3529	3572
20°	3487	3519	3591
25°	3443	3499	3607
30°	3389	3476	3589
35°	3324	3428	3547
40°	3246	3362	3466
45°	3146	3265	3331
50°	3059	3138	3171
55°	2905	2964	2949
60°	2749	2749	2673
65°	2551	2492	2351
70°	2263	2164	1954
75°	1961	1781	1503
80°	1607	1389	1364
85°	1068	1263	1359



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.9	3.6
10°-20°	358.7	10.2
20°-30°	545.1	15.5
30°-40°	652.7	18.6
40°-50°	658.3	18.7
50°-60°	560.7	16.0
60°-70°	383.4	10.9
70°-80°	183.6	5.2
80°-90°	46.5	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°	1028.7	29.3
0°-40°	1681.4	47.8
0°-60°	2900.5	82.5
0°-90°	3514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3514.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1322	1322	1322	1322	1322	
5°	1318	1317	1311	1317	1315	125
15°	1265	1262	1267	1281	1282	357
25°	1160	1161	1179	1205	1215	534
35°	1012	1015	1043	1073	1080	632
45°	827	833	858	875	875	638
55°	619	622	632	633	629	554
65°	401	393	391	377	369	395
75°	189	185	171	149	145	201
85°	35	38	41	42	44	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1321.5	1321.5	1321.5	1321.5	1321.5
2.5°	1323.1	1321.5	1315.3	1321.5	1320.0
5°	1318.4	1316.8	1310.6	1316.8	1315.3
7.5°	1309.0	1307.4	1302.7	1309.0	1309.0
10°	1298.0	1294.8	1291.7	1301.1	1302.7
12.5°	1283.8	1280.7	1280.7	1291.7	1293.3
15°	1265.0	1261.8	1266.6	1280.7	1282.3
17.5°	1243.0	1241.4	1249.3	1266.6	1269.7
20°	1217.8	1216.3	1228.8	1249.3	1254.0
22.5°	1191.1	1191.1	1205.3	1228.8	1235.1
25°	1159.7	1161.3	1178.6	1205.3	1214.7
27.5°	1126.7	1129.8	1150.3	1180.1	1188.0
30°	1090.6	1095.3	1118.8	1147.1	1155.0
32.5°	1051.3	1056.0	1082.7	1112.6	1120.4
35°	1012.0	1015.1	1043.4	1073.3	1079.6
37.5°	968.0	972.7	1002.6	1029.3	1035.6
40°	924.0	928.7	957.0	982.1	986.8
42.5°	875.3	881.6	909.8	930.3	933.4
45°	826.6	832.8	858.0	875.3	875.3
47.5°	777.8	781.0	803.0	820.3	818.7
50°	730.7	729.1	749.6	757.4	757.4
52.5°	672.6	677.3	691.4	696.1	691.4
55°	619.1	622.3	631.7	633.3	628.6
57.5°	567.3	565.7	573.6	568.8	562.6
60°	510.7	510.7	510.7	506.0	496.6
62.5°	455.7	452.6	451.0	440.0	435.3
65°	400.7	392.9	391.3	377.1	369.3
67.5°	342.6	339.4	331.6	317.4	303.3
70°	287.6	284.4	275.0	257.7	248.3
72.5°	237.3	234.1	221.6	201.1	188.6
75°	188.6	185.4	171.3	149.3	144.6
77.5°	143.0	141.4	127.3	116.3	114.7
80°	103.7	102.1	89.6	89.6	88.0
82.5°	66.0	66.0	62.9	64.4	66.0
85°	34.6	37.7	40.9	42.4	44.0
87.5°	11.0	17.3	20.4	22.0	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)