

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: P297642

Luminaire Tested: **D3X-WD-40L93050-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297642  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-40L93050-LD5-UNV-14-T1-W2A-4500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3598.0 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

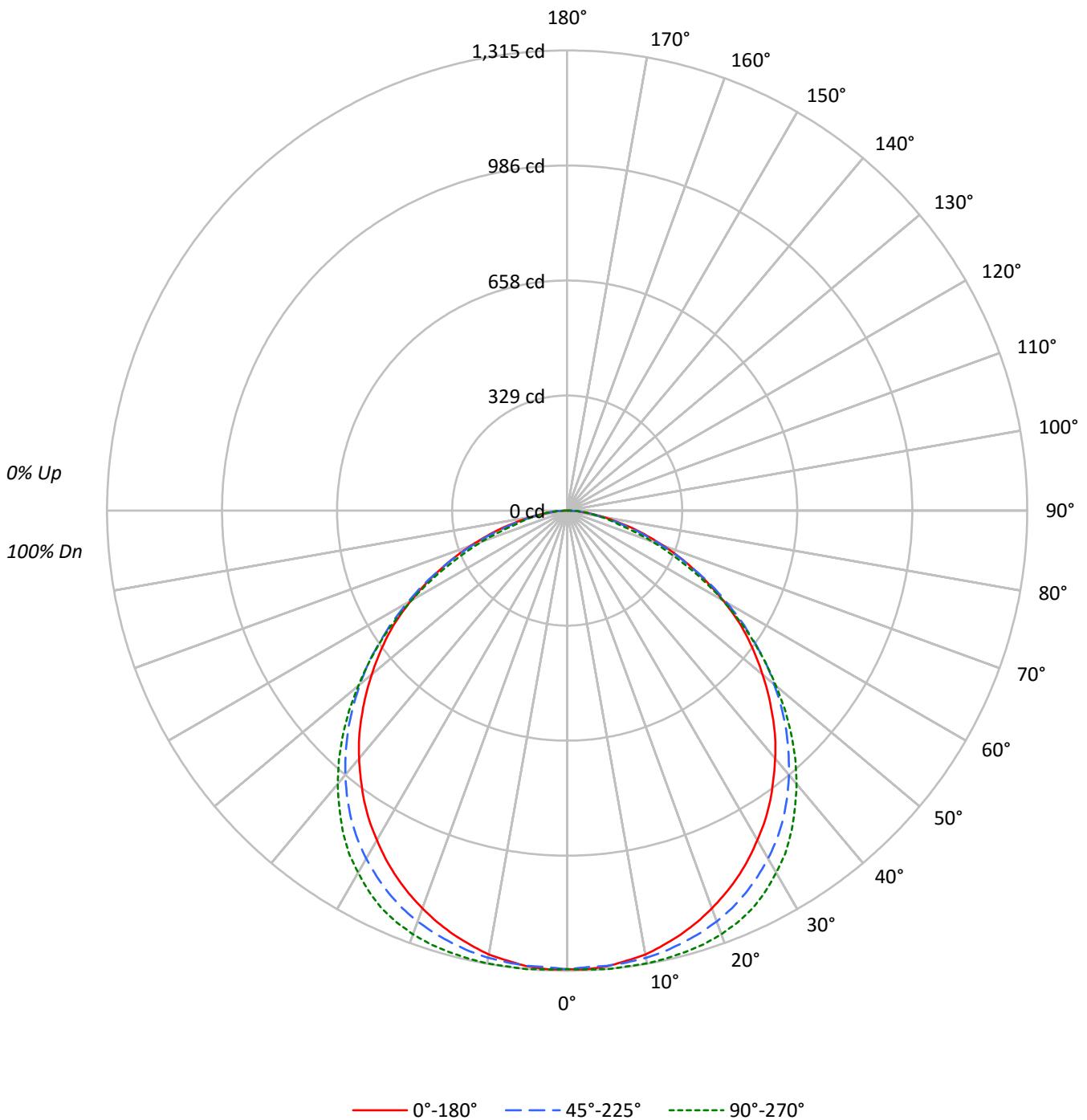
Input Watts (W): 41.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	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	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

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

	0°	45°	90°
0°	3527	3527	3527
5°	3531	3527	3553
10°	3520	3546	3590
15°	3494	3562	3638
20°	3463	3578	3689
25°	3429	3581	3724
30°	3379	3568	3713
35°	3324	3535	3672
40°	3250	3464	3583
45°	3160	3368	3447
50°	3053	3234	3261
55°	2946	3059	3044
60°	2775	2835	2766
65°	2557	2567	2423
70°	2287	2237	2035
75°	1987	1854	1570
80°	1593	1444	1444
85°	1139	1340	1389



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.7	3.5
10°-20°	361.8	10.1
20°-30°	555.5	15.4
30°-40°	669.0	18.6
40°-50°	676.1	18.8
50°-60°	576.7	16.0
60°-70°	394.8	11.0
70°-80°	190.5	5.3
80°-90°	49.1	1.4
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°	1041.9	29.0
0°-40°	1710.9	47.6
0°-60°	2963.6	82.4
0°-90°	3598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3598.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1311	1311	1311	1311	1311	
5°	1307	1307	1306	1314	1315	124
15°	1254	1264	1278	1301	1306	354
25°	1155	1172	1206	1242	1254	532
35°	1012	1034	1076	1110	1118	632
45°	830	853	885	906	906	640
55°	628	639	652	655	649	559
65°	402	406	403	389	381	398
75°	191	191	178	157	151	203
85°	37	40	43	45	45	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1310.6	1310.6	1310.6	1310.6	1310.6
2.5°	1312.2	1310.6	1305.7	1312.2	1312.2
5°	1307.3	1307.3	1305.7	1313.8	1315.4
7.5°	1297.7	1300.9	1302.5	1312.2	1313.8
10°	1288.1	1291.3	1297.7	1310.6	1313.8
12.5°	1272.0	1278.4	1289.7	1307.3	1310.6
15°	1254.3	1264.0	1278.4	1300.9	1305.7
17.5°	1233.5	1246.3	1265.6	1291.3	1299.3
20°	1209.4	1223.8	1249.5	1278.4	1288.1
22.5°	1183.7	1199.7	1230.3	1264.0	1273.6
25°	1154.8	1172.4	1206.2	1241.5	1254.3
27.5°	1122.6	1141.9	1178.9	1215.8	1227.0
30°	1087.3	1108.2	1148.3	1185.3	1194.9
32.5°	1052.0	1072.9	1114.6	1150.0	1161.2
35°	1011.8	1034.3	1076.1	1109.8	1117.8
37.5°	968.5	990.9	1032.7	1066.4	1069.6
40°	925.1	947.6	986.1	1016.6	1019.9
42.5°	880.1	901.0	936.3	962.0	965.3
45°	830.3	852.8	884.9	905.8	905.8
47.5°	780.6	803.0	830.3	844.8	844.8
50°	729.2	750.0	772.5	780.6	778.9
52.5°	677.8	697.0	716.3	717.9	714.7
55°	628.0	639.2	652.1	655.3	648.9
57.5°	573.4	583.0	591.0	586.2	581.4
60°	515.6	525.2	526.8	518.8	513.9
62.5°	459.3	467.4	467.4	454.5	446.5
65°	401.5	406.3	403.1	388.7	380.6
67.5°	346.9	350.1	343.7	329.2	316.4
70°	290.7	292.3	284.3	266.6	258.6
72.5°	239.3	240.9	231.3	210.4	200.8
75°	191.1	191.1	178.3	157.4	151.0
77.5°	142.9	147.8	133.3	122.1	122.1
80°	102.8	107.6	93.2	94.8	93.2
82.5°	67.5	72.3	67.5	67.5	67.5
85°	36.9	40.2	43.4	45.0	45.0
87.5°	11.2	19.3	20.9	22.5	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)