

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: P298078

Luminaire Tested: **D3X-WD-44L93050-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298078  
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-44L93050-LD5-UNV-22-T1-W2A-3000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3157.0 lumens  
Efficiency: N/A  
Efficacy: 86.5 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

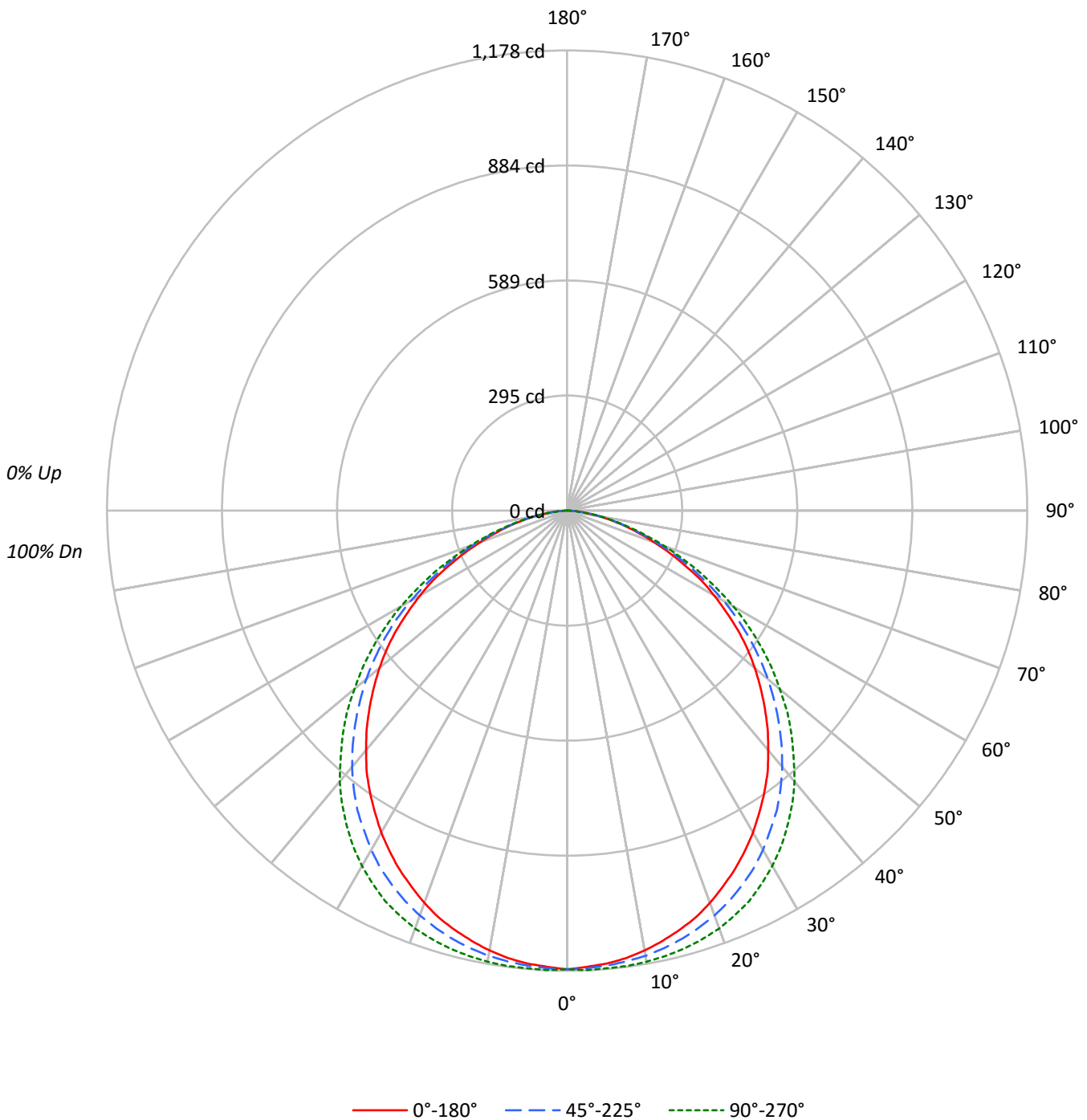
Input Watts (W): 36.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3160	3160	3160
5°	3144	3158	3176
10°	3125	3162	3204
15°	3096	3162	3233
20°	3061	3158	3260
25°	3012	3143	3274
30°	2957	3115	3263
35°	2892	3076	3232
40°	2812	3008	3182
45°	2723	2917	3091
50°	2625	2810	2974
55°	2503	2671	2838
60°	2341	2488	2652
65°	2121	2251	2391
70°	1872	1965	2072
75°	1607	1643	1713
80°	1291	1317	1344
85°	945	840	840



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.3	3.5
10°-20°	320.5	10.2
20°-30°	487.6	15.4
30°-40°	583.3	18.5
40°-50°	589.7	18.7
50°-60°	507.5	16.1
60°-70°	350.4	11.1
70°-80°	169.9	5.4
80°-90°	36.9	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°	919.4	29.1
0°-40°	1502.7	47.6
0°-60°	2599.9	82.4
0°-90°	3157.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3157.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1164	1166	1169	1174	1176	110
15°	1111	1118	1135	1152	1161	313
25°	1014	1026	1059	1091	1103	467
35°	880	896	936	970	984	550
45°	715	729	766	799	812	552
55°	534	542	569	595	605	476
65°	333	338	354	369	376	331
75°	155	151	158	163	165	164
85°	31	31	27	27	27	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1174.2	1174.2	1174.2	1174.2	1174.2
2.5°	1169.1	1169.1	1172.5	1175.9	1177.6
5°	1164.0	1165.7	1169.1	1174.2	1175.9
7.5°	1155.5	1157.2	1164.0	1172.5	1175.9
10°	1143.6	1147.0	1157.2	1167.4	1172.5
12.5°	1128.3	1135.1	1147.0	1160.6	1167.4
15°	1111.3	1118.1	1135.1	1152.1	1160.6
17.5°	1092.7	1099.4	1119.8	1141.9	1150.4
20°	1068.9	1079.1	1102.8	1128.3	1138.5
22.5°	1041.7	1055.3	1082.5	1109.6	1121.5
25°	1014.5	1026.4	1058.7	1091.0	1102.8
27.5°	983.9	997.5	1033.2	1065.5	1077.4
30°	951.6	965.2	1002.6	1038.3	1050.2
32.5°	915.9	932.9	968.6	1006.0	1019.6
35°	880.2	895.5	936.3	970.3	983.9
37.5°	842.9	856.4	897.2	932.9	946.5
40°	800.4	815.7	856.4	892.1	905.7
42.5°	759.6	774.9	812.3	846.3	858.1
45°	715.4	729.0	766.4	798.7	812.3
47.5°	671.2	686.5	718.8	751.1	764.7
50°	627.0	638.9	671.2	701.8	710.3
52.5°	581.2	591.4	620.2	647.4	659.3
55°	533.6	542.1	569.3	594.8	605.0
57.5°	482.6	492.8	518.3	537.0	548.9
60°	435.0	440.1	462.2	480.9	492.8
62.5°	387.4	389.1	406.1	424.8	431.6
65°	333.1	338.2	353.5	368.7	375.5
67.5°	283.8	288.9	300.8	312.7	317.8
70°	237.9	237.9	249.8	258.3	263.4
72.5°	192.0	193.7	202.2	207.3	212.4
75°	154.6	151.2	158.0	163.1	164.8
77.5°	115.6	113.9	119.0	120.7	124.0
80°	83.3	83.3	85.0	86.7	86.7
82.5°	54.4	54.4	56.1	52.7	51.0
85°	30.6	30.6	27.2	27.2	27.2
87.5°	10.2	10.2	10.2	11.9	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)