

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: P297995

Luminaire Tested: **D3X-WD-44L83050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297995  
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-44L83050-LD5-UNV-22-T1-W2A-3500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4057.0 lumens  
Efficiency: N/A  
Efficacy: 114.0 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

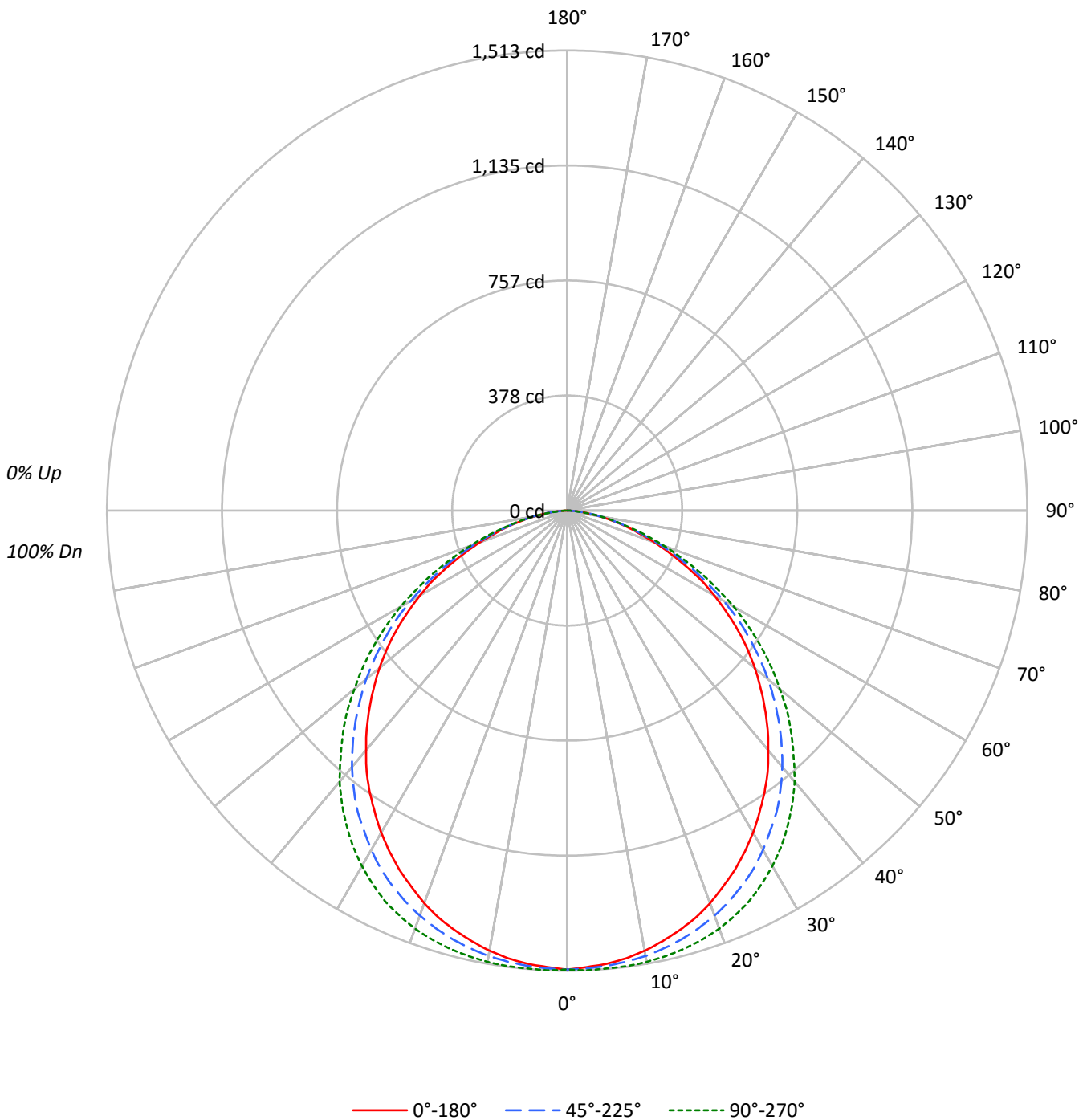
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P297995

CATALOG NUMBER: D3X-WD-44L83050-LD5-UNV-22-T1-W2A-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P297995

CATALOG NUMBER: D3X-WD-44L83050-LD5-UNV-22-T1-W2A-3500K

**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°	4061	4061	4061
5°	4041	4058	4082
10°	4016	4063	4117
15°	3979	4064	4155
20°	3934	4058	4190
25°	3871	4040	4208
30°	3800	4003	4194
35°	3716	3953	4154
40°	3613	3866	4089
45°	3499	3748	3972
50°	3373	3611	3821
55°	3217	3432	3647
60°	3009	3197	3408
65°	2725	2892	3073
70°	2405	2526	2663
75°	2066	2112	2202
80°	1658	1692	1726
85°	1213	1078	1078



TEST NUMBER: P297995

CATALOG NUMBER: D3X-WD-44L83050-LD5-UNV-22-T1-W2A-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.0	3.5
10°-20°	411.9	10.2
20°-30°	626.5	15.4
30°-40°	749.6	18.5
40°-50°	757.8	18.7
50°-60°	652.2	16.1
60°-70°	450.3	11.1
70°-80°	218.3	5.4
80°-90°	47.4	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°	1181.5	29.1
0°-40°	1931.1	47.6
0°-60°	3341.1	82.4
0°-90°	4057.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4057.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1509	1509	1509	1509	1509	
5°	1496	1498	1502	1509	1511	142
15°	1428	1437	1459	1481	1492	403
25°	1304	1319	1360	1402	1417	600
35°	1131	1151	1203	1247	1264	707
45°	919	937	985	1026	1044	709
55°	686	697	732	764	777	611
65°	428	435	454	474	483	426
75°	199	194	203	210	212	211
85°	39	39	35	35	35	48
90°	0	0	0	0	0	



TEST NUMBER: P297995

CATALOG NUMBER: D3X-WD-44L83050-LD5-UNV-22-T1-W2A-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1509.0	1509.0	1509.0	1509.0	1509.0
2.5°	1502.4	1502.4	1506.8	1511.1	1513.3
5°	1495.9	1498.0	1502.4	1509.0	1511.1
7.5°	1484.9	1487.1	1495.9	1506.8	1511.1
10°	1469.7	1474.0	1487.1	1500.2	1506.8
12.5°	1450.0	1458.7	1474.0	1491.5	1500.2
15°	1428.2	1436.9	1458.7	1480.6	1491.5
17.5°	1404.1	1412.9	1439.1	1467.5	1478.4
20°	1373.6	1386.7	1417.2	1450.0	1463.1
22.5°	1338.6	1356.1	1391.0	1426.0	1441.3
25°	1303.7	1319.0	1360.5	1402.0	1417.2
27.5°	1264.4	1281.9	1327.7	1369.2	1384.5
30°	1222.9	1240.4	1288.4	1334.3	1349.6
32.5°	1177.0	1198.9	1244.7	1292.8	1310.2
35°	1131.2	1150.8	1203.2	1246.9	1264.4
37.5°	1083.1	1100.6	1153.0	1198.9	1216.3
40°	1028.5	1048.2	1100.6	1146.5	1163.9
42.5°	976.1	995.8	1043.8	1087.5	1102.8
45°	919.4	936.8	984.9	1026.4	1043.8
47.5°	862.6	882.2	923.7	965.2	982.7
50°	805.8	821.1	862.6	901.9	912.8
52.5°	746.8	759.9	797.1	832.0	847.3
55°	685.7	696.6	731.6	764.3	777.4
57.5°	620.2	633.3	666.0	690.1	705.3
60°	559.0	565.6	594.0	618.0	633.3
62.5°	497.9	500.1	521.9	545.9	554.7
65°	428.0	434.6	454.2	473.9	482.6
67.5°	364.7	371.2	386.5	401.8	408.4
70°	305.7	305.7	321.0	331.9	338.5
72.5°	246.8	248.9	259.9	266.4	273.0
75°	198.7	194.4	203.1	209.6	211.8
77.5°	148.5	146.3	152.9	155.0	159.4
80°	107.0	107.0	109.2	111.4	111.4
82.5°	69.9	69.9	72.1	67.7	65.5
85°	39.3	39.3	34.9	34.9	34.9
87.5°	13.1	13.1	13.1	15.3	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)