

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: P298071

Luminaire Tested: **D3X-WD-35L93050-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298071  
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-35L93050-LD5-UNV-22-T1-W2A-4500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3059.0 lumens  
Efficiency: N/A  
Efficacy: 105.1 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

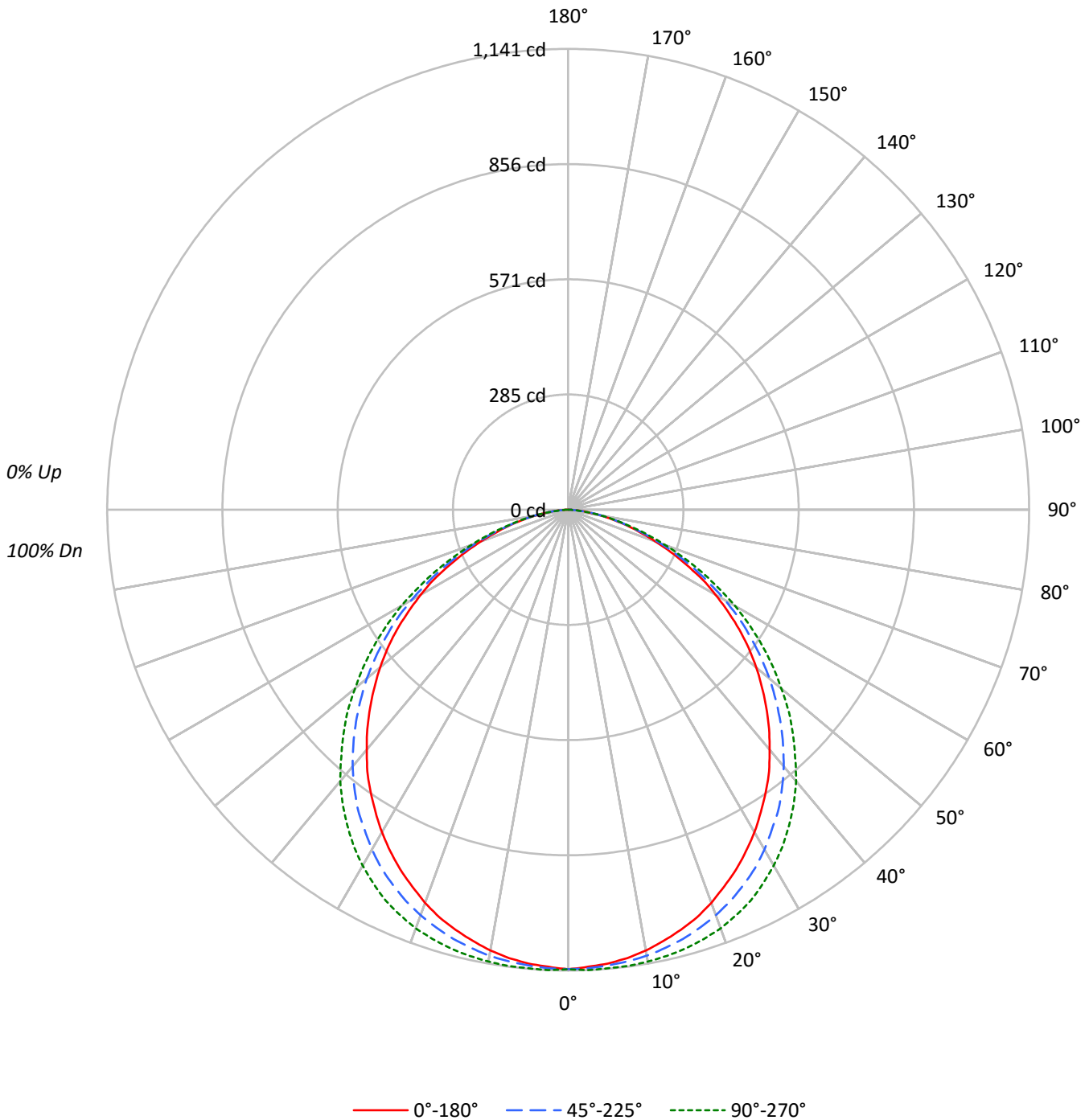
Input Watts (W): 29.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3062	3062	3062
5°	3047	3060	3078
10°	3028	3064	3104
15°	3000	3064	3133
20°	2966	3060	3159
25°	2919	3046	3173
30°	2865	3019	3162
35°	2802	2981	3132
40°	2724	2915	3083
45°	2638	2826	2995
50°	2544	2723	2882
55°	2426	2588	2750
60°	2268	2411	2570
65°	2055	2181	2317
70°	1814	1904	2008
75°	1557	1592	1660
80°	1251	1275	1302
85°	914	812	812



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.8	3.5
10°-20°	310.6	10.2
20°-30°	472.4	15.4
30°-40°	565.2	18.5
40°-50°	571.4	18.7
50°-60°	491.7	16.1
60°-70°	339.5	11.1
70°-80°	164.6	5.4
80°-90°	35.7	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°	890.8	29.1
0°-40°	1456.1	47.6
0°-60°	2519.2	82.4
0°-90°	3059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3059.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1138	1138	1138	1138	1138	
5°	1128	1130	1133	1138	1139	107
15°	1077	1083	1100	1116	1125	304
25°	983	994	1026	1057	1069	453
35°	853	868	907	940	953	533
45°	693	706	743	774	787	535
55°	517	525	552	576	586	461
65°	323	328	342	357	364	321
75°	150	146	153	158	160	159
85°	30	30	26	26	26	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1137.8	1137.8	1137.8	1137.8	<i>1137.8</i>
2.5°	<i>1132.8</i>	<i>1132.8</i>	<i>1136.1</i>	<i>1139.4</i>	<i>1141.1</i>
5°	1127.9	1129.5	1132.8	1137.8	<i>1139.4</i>
7.5°	1119.7	1121.3	1127.9	1136.1	<i>1139.4</i>
10°	1108.1	1111.4	1121.3	1131.2	<i>1136.1</i>
12.5°	1093.3	1099.9	1111.4	1124.6	<i>1131.2</i>
15°	1076.8	1083.4	1099.9	1116.4	<i>1124.6</i>
17.5°	1058.7	1065.3	1085.1	1106.5	<i>1114.7</i>
20°	1035.7	1045.6	1068.6	1093.3	<i>1103.2</i>
22.5°	1009.3	1022.5	1048.9	1075.2	<i>1086.7</i>
25°	983.0	994.5	1025.8	1057.1	<i>1068.6</i>
27.5°	953.4	966.5	1001.1	1032.4	<i>1043.9</i>
30°	922.1	935.2	971.5	1006.0	<i>1017.6</i>
32.5°	887.5	904.0	938.5	974.8	<i>987.9</i>
35°	852.9	867.7	907.3	940.2	<i>953.4</i>
37.5°	816.7	829.9	869.4	904.0	<i>917.1</i>
40°	775.5	790.3	829.9	864.4	<i>877.6</i>
42.5°	736.0	750.8	787.1	820.0	<i>831.5</i>
45°	693.2	706.4	742.6	773.9	<i>787.1</i>
47.5°	650.4	665.2	696.5	727.8	<i>740.9</i>
50°	607.6	619.1	650.4	680.0	<i>688.3</i>
52.5°	563.1	573.0	601.0	627.3	<i>638.9</i>
55°	517.0	525.3	551.6	576.3	<i>586.2</i>
57.5°	467.6	477.5	502.2	520.3	<i>531.8</i>
60°	421.5	426.5	447.9	466.0	<i>477.5</i>
62.5°	375.4	377.1	393.5	411.6	<i>418.2</i>
65°	322.7	327.7	342.5	357.3	<i>363.9</i>
67.5°	275.0	279.9	291.4	303.0	<i>307.9</i>
70°	230.5	230.5	242.0	250.3	<i>255.2</i>
72.5°	186.1	187.7	195.9	200.9	<i>205.8</i>
75°	149.8	146.5	153.1	158.1	<i>159.7</i>
77.5°	112.0	110.3	115.3	116.9	<i>120.2</i>
80°	80.7	80.7	82.3	84.0	<i>84.0</i>
82.5°	52.7	52.7	54.3	51.0	<i>49.4</i>
85°	29.6	29.6	26.3	26.3	<i>26.3</i>
87.5°	9.9	9.9	9.9	11.5	<i>9.9</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)