

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: P296714

Luminaire Tested: **D3X-WD-36L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296714  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-36L83050-LD5-UNV-24-T1-W2A-3000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3258.0 lumens  
Efficiency: N/A  
Efficacy: 129.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

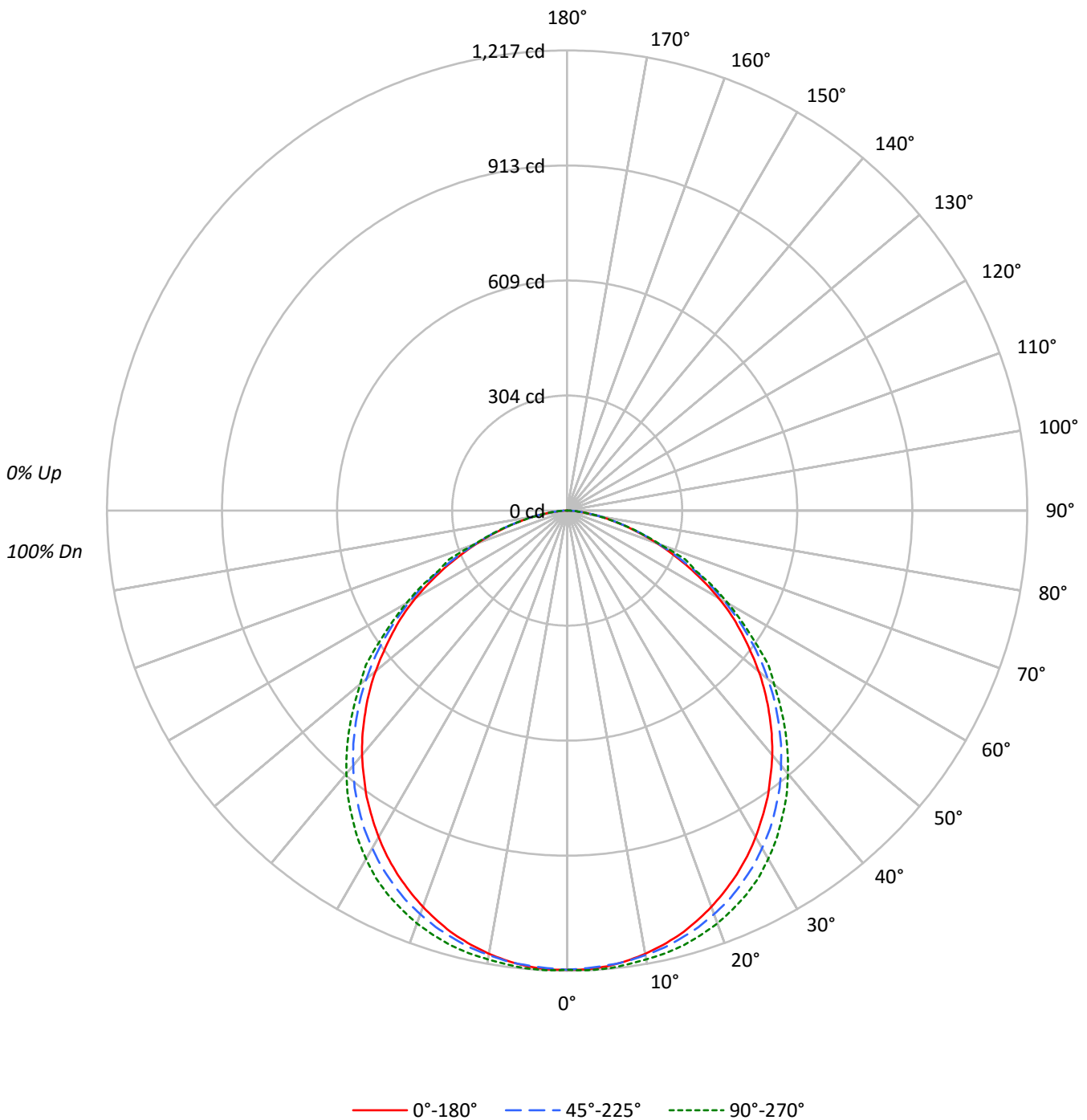
Input Watts (W): 25.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	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	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	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	30	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°	1634	1634	1634
5°	1634	1631	1642
10°	1626	1631	1647
15°	1615	1630	1658
20°	1597	1627	1664
25°	1576	1617	1664
30°	1549	1602	1653
35°	1519	1578	1628
40°	1482	1546	1595
45°	1437	1504	1550
50°	1385	1451	1495
55°	1322	1382	1423
60°	1246	1293	1324
65°	1131	1169	1191
70°	993	1016	1030
75°	839	851	857
80°	670	680	661
85°	451	469	451



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.1	3.5
10°-20°	331.0	10.2
20°-30°	502.2	15.4
30°-40°	599.6	18.4
40°-50°	607.0	18.6
50°-60°	524.7	16.1
60°-70°	363.7	11.2
70°-80°	175.9	5.4
80°-90°	38.7	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°	948.3	29.1
0°-40°	1547.9	47.5
0°-60°	2679.7	82.2
0°-90°	3258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3258.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1215	1215	1215	1215	1215	
5°	1210	1209	1208	1213	1216	115
15°	1160	1162	1170	1184	1190	327
25°	1061	1068	1090	1112	1121	489
35°	925	933	961	985	991	578
45°	755	766	790	810	815	582
55°	563	569	589	614	607	504
65°	355	359	367	373	374	352
75°	161	162	164	162	165	173
85°	29	32	30	29	29	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1214.6	1214.6	1214.6	1214.6	1214.6
2.5°	1214.6	1213.4	1211.1	1214.6	1216.9
5°	1209.9	1208.7	1207.5	1213.4	1215.7
7.5°	1201.7	1201.7	1202.9	1208.7	1211.1
10°	1190.0	1191.2	1193.5	1202.9	1205.2
12.5°	1176.0	1178.3	1184.2	1194.7	1199.4
15°	1159.6	1162.0	1170.1	1184.2	1190.0
17.5°	1138.6	1143.3	1154.9	1171.3	1177.2
20°	1115.2	1121.0	1136.2	1154.9	1162.0
22.5°	1089.5	1095.3	1115.2	1135.1	1142.1
25°	1061.4	1068.4	1089.5	1111.7	1121.0
27.5°	1031.0	1039.2	1062.6	1086.0	1095.3
30°	997.1	1006.5	1031.0	1055.6	1063.8
32.5°	960.9	970.2	998.3	1021.7	1029.9
35°	924.7	932.8	960.9	985.4	991.3
37.5°	883.7	893.1	923.5	944.5	952.7
40°	844.0	853.3	880.2	901.3	908.3
42.5°	800.7	810.1	837.0	856.9	862.7
45°	755.2	765.7	790.2	810.1	814.8
47.5°	709.6	717.7	743.5	761.0	764.5
50°	661.6	669.8	693.2	710.7	714.2
52.5°	611.4	624.2	642.9	655.8	671.0
55°	563.4	569.3	589.2	613.7	606.7
57.5°	515.5	519.0	535.4	545.9	548.2
60°	462.9	467.6	480.4	486.3	492.1
62.5°	408.0	411.5	426.7	432.5	434.9
65°	355.4	358.9	367.1	372.9	374.1
67.5°	301.6	305.1	312.1	316.8	337.8
70°	252.5	254.8	258.3	267.7	261.8
72.5°	205.7	206.9	210.4	210.4	211.6
75°	161.3	162.5	163.7	162.5	164.8
77.5°	120.4	122.7	123.9	122.7	121.6
80°	86.5	88.8	87.7	85.3	85.3
82.5°	56.1	57.3	56.1	54.9	54.9
85°	29.2	31.6	30.4	29.2	29.2
87.5°	10.5	11.7	12.9	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)