

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: P296719

Luminaire Tested: **D3X-WD-42L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296719  
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-42L83050-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: 3738.0 lumens  
Efficiency: N/A  
Efficacy: 128.9 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

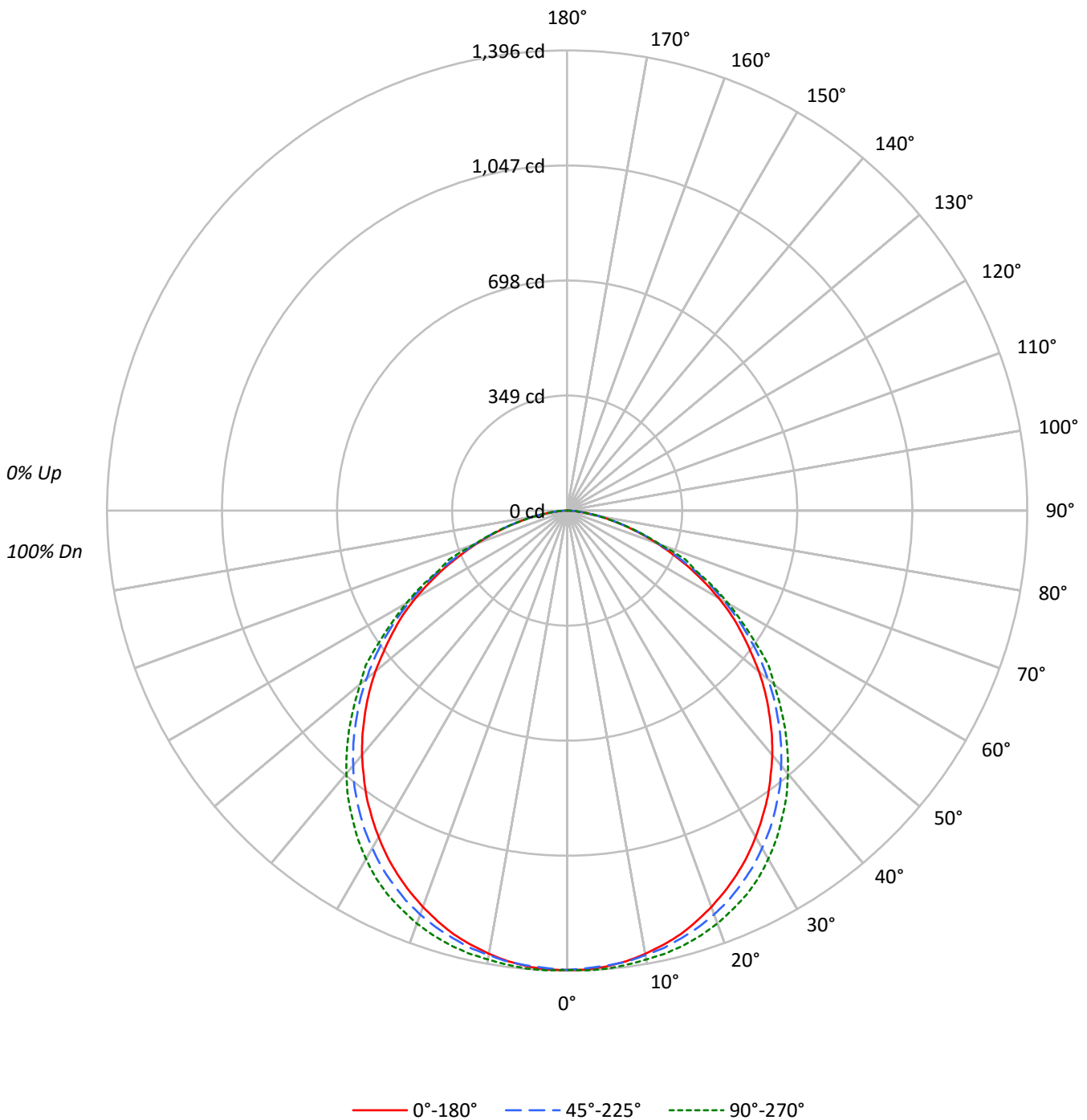
Input Watts (W): 29  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1875	1875	1875
5°	1875	1871	1884
10°	1865	1871	1889
15°	1853	1870	1902
20°	1832	1867	1909
25°	1808	1856	1909
30°	1777	1838	1896
35°	1743	1811	1868
40°	1701	1774	1830
45°	1649	1725	1779
50°	1589	1665	1715
55°	1517	1586	1633
60°	1429	1483	1519
65°	1298	1341	1366
70°	1140	1166	1182
75°	962	976	983
80°	769	779	759
85°	517	539	517



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.1	3.5
10°-20°	379.8	10.2
20°-30°	576.2	15.4
30°-40°	687.9	18.4
40°-50°	696.5	18.6
50°-60°	602.0	16.1
60°-70°	417.2	11.2
70°-80°	201.9	5.4
80°-90°	44.4	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°	1088.1	29.1
0°-40°	1776.0	47.5
0°-60°	3074.5	82.2
0°-90°	3738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3738.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1394	1394	1394	1394	1394	
5°	1388	1387	1386	1392	1395	132
15°	1330	1333	1342	1359	1365	375
25°	1218	1226	1250	1276	1286	561
35°	1061	1070	1102	1131	1137	663
45°	866	878	907	929	935	668
55°	646	653	676	704	696	578
65°	408	412	421	428	429	404
75°	185	186	188	186	189	199
85°	34	36	35	34	34	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1393.5	1393.5	1393.5	1393.5	1393.5
2.5°	1393.5	1392.2	1389.5	1393.5	1396.2
5°	1388.1	1386.8	1385.5	1392.2	1394.8
7.5°	1378.7	1378.7	1380.1	1386.8	1389.5
10°	1365.3	1366.7	1369.4	1380.1	1382.8
12.5°	1349.2	1351.9	1358.6	1370.7	1376.1
15°	1330.5	1333.1	1342.5	1358.6	1365.3
17.5°	1306.3	1311.7	1325.1	1343.9	1350.6
20°	1279.5	1286.2	1303.6	1325.1	1333.1
22.5°	1250.0	1256.7	1279.5	1302.3	1310.3
25°	1217.8	1225.9	1250.0	1275.5	1286.2
27.5°	1182.9	1192.3	1219.1	1246.0	1256.7
30°	1144.0	1154.8	1182.9	1211.1	1220.5
32.5°	1102.5	1113.2	1145.4	1172.2	1181.6
35°	1060.9	1070.3	1102.5	1130.6	1137.3
37.5°	1013.9	1024.7	1059.5	1083.7	1093.1
40°	968.3	979.1	1009.9	1034.1	1042.1
42.5°	918.7	929.4	960.3	983.1	989.8
45°	866.4	878.5	906.6	929.4	934.8
47.5°	814.1	823.5	853.0	873.1	877.1
50°	759.1	768.5	795.3	815.4	819.5
52.5°	701.4	716.2	737.7	752.4	769.8
55°	646.5	653.2	676.0	704.1	696.1
57.5°	591.5	595.5	614.3	626.3	629.0
60°	531.1	536.5	551.2	557.9	564.6
62.5°	468.1	472.1	489.5	496.2	498.9
65°	407.7	411.7	421.1	427.8	429.2
67.5°	346.0	350.1	358.1	363.5	387.6
70°	289.7	292.4	296.4	307.1	300.4
72.5°	236.0	237.4	241.4	241.4	242.8
75°	185.1	186.4	187.8	186.4	189.1
77.5°	138.1	140.8	142.2	140.8	139.5
80°	99.2	101.9	100.6	97.9	97.9
82.5°	64.4	65.7	64.4	63.0	63.0
85°	33.5	36.2	34.9	33.5	33.5
87.5°	12.1	13.4	14.8	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)