

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: P297992

Luminaire Tested: **D3X-WD-40L83050-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297992  
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-40L83050-LD5-UNV-22-T1-W2A-4500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3927.0 lumens  
Efficiency: N/A  
Efficacy: 116.5 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

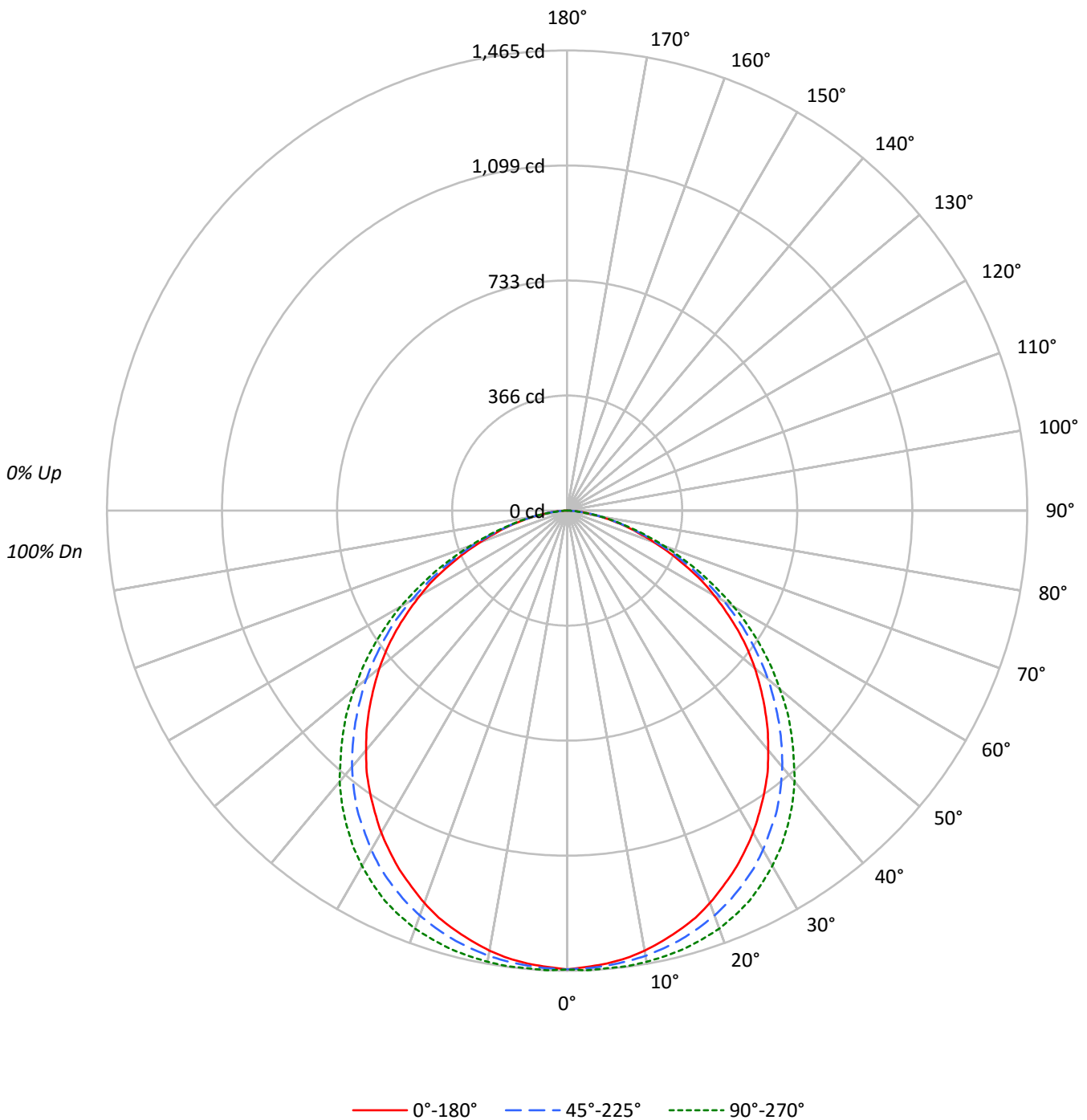
Input Watts (W): 33.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3930	3930	3930
5°	3911	3928	3951
10°	3887	3933	3985
15°	3851	3934	4022
20°	3808	3928	4056
25°	3747	3910	4073
30°	3678	3875	4059
35°	3597	3826	4021
40°	3497	3742	3958
45°	3387	3628	3845
50°	3265	3495	3699
55°	3114	3322	3530
60°	2912	3094	3299
65°	2638	2800	2974
70°	2328	2445	2578
75°	2000	2044	2131
80°	1605	1638	1671
85°	1173	1044	1044



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.4	3.5
10°-20°	398.7	10.2
20°-30°	606.5	15.4
30°-40°	725.6	18.5
40°-50°	733.5	18.7
50°-60°	631.3	16.1
60°-70°	435.8	11.1
70°-80°	211.3	5.4
80°-90°	45.8	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°	1143.6	29.1
0°-40°	1869.2	47.6
0°-60°	3234.0	82.4
0°-90°	3927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3927.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1461	1461	1461	1461	1461	
5°	1448	1450	1454	1461	1463	137
15°	1382	1391	1412	1433	1444	390
25°	1262	1277	1317	1357	1372	581
35°	1095	1114	1165	1207	1224	684
45°	890	907	953	994	1010	686
55°	664	674	708	740	752	592
65°	414	421	440	459	467	412
75°	192	188	197	203	205	204
85°	38	38	34	34	34	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1460.6	1460.6	1460.6	1460.6	1460.6
2.5°	1454.3	1454.3	1458.5	1462.7	1464.8
5°	1447.9	1450.0	1454.3	1460.6	1462.7
7.5°	1437.4	1439.5	1447.9	1458.5	1462.7
10°	1422.6	1426.8	1439.5	1452.2	1458.5
12.5°	1403.5	1412.0	1426.8	1443.7	1452.2
15°	1382.4	1390.9	1412.0	1433.1	1443.7
17.5°	1359.2	1367.6	1393.0	1420.5	1431.0
20°	1329.6	1342.2	1371.8	1403.5	1416.2
22.5°	1295.7	1312.6	1346.5	1380.3	1395.1
25°	1261.9	1276.7	1316.9	1357.0	1371.8
27.5°	1223.9	1240.8	1285.2	1325.3	1340.1
30°	1183.7	1200.6	1247.1	1291.5	1306.3
32.5°	1139.3	1160.5	1204.8	1251.4	1268.3
35°	1094.9	1114.0	1164.7	1207.0	1223.9
37.5°	1048.4	1065.3	1116.1	1160.5	1177.4
40°	995.6	1014.6	1065.3	1109.7	1126.6
42.5°	944.9	963.9	1010.4	1052.7	1067.5
45°	889.9	906.8	953.3	993.5	1010.4
47.5°	834.9	854.0	894.1	934.3	951.2
50°	780.0	794.8	834.9	873.0	883.6
52.5°	722.9	735.6	771.5	805.3	820.1
55°	663.7	674.3	708.1	739.8	752.5
57.5°	600.3	613.0	644.7	668.0	682.7
60°	541.1	547.5	574.9	598.2	613.0
62.5°	481.9	484.1	505.2	528.4	536.9
65°	414.3	420.6	439.7	458.7	467.1
67.5°	353.0	359.3	374.1	388.9	395.3
70°	295.9	295.9	310.7	321.3	327.6
72.5°	238.9	241.0	251.5	257.9	264.2
75°	192.4	188.1	196.6	202.9	205.0
77.5°	143.7	141.6	148.0	150.1	154.3
80°	103.6	103.6	105.7	107.8	107.8
82.5°	67.6	67.6	69.8	65.5	63.4
85°	38.0	38.0	33.8	33.8	33.8
87.5°	12.7	12.7	12.7	14.8	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)