

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: P298317

Luminaire Tested: **D3X-WO-31L83050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298317  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-31L83050-LD5-UNV-22-T1-W2A-4000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3302.0 lumens  
Efficiency: N/A  
Efficacy: 132.1 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

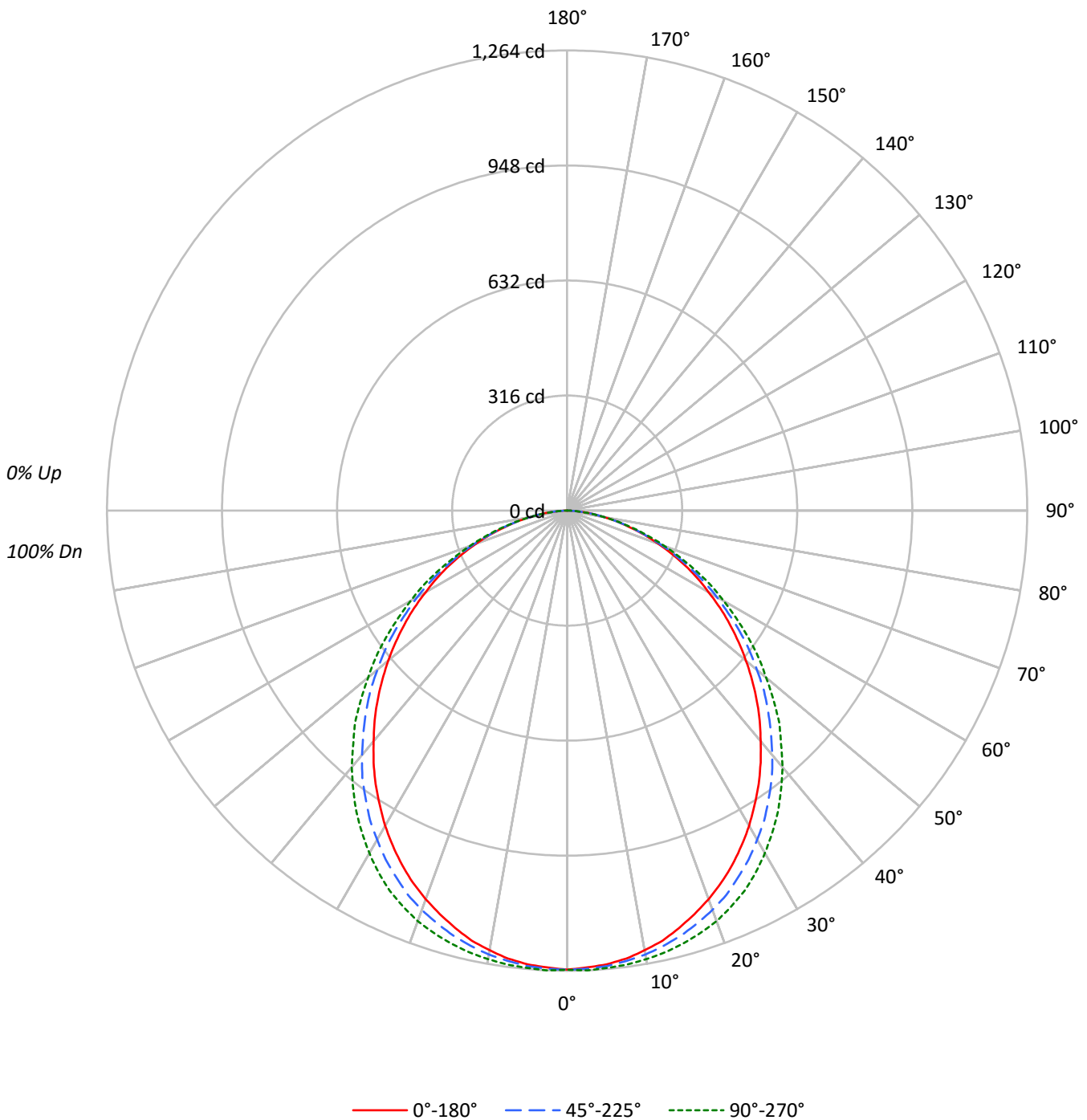
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	84	72	63	57	81	70	62	56	68	61	56	66	60	55	64	58	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	43	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

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

	0°	45°	90°
0°	3393	3393	3393
5°	3380	3393	3406
10°	3351	3383	3419
15°	3307	3366	3431
20°	3253	3343	3437
25°	3188	3300	3422
30°	3106	3244	3377
35°	3014	3170	3316
40°	2905	3078	3234
45°	2803	2972	3135
50°	2684	2849	2987
55°	2561	2715	2846
60°	2415	2557	2672
65°	2282	2366	2481
70°	2095	2161	2238
75°	1863	1914	1966
80°	1605	1579	1579
85°	1220	1118	1016



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.3	3.6
10°-20°	341.0	10.3
20°-30°	511.9	15.5
30°-40°	602.5	18.2
40°-50°	601.0	18.2
50°-60°	515.7	15.6
60°-70°	369.3	11.2
70°-80°	195.6	5.9
80°-90°	45.8	1.4
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°	972.2	29.4
0°-40°	1574.7	47.7
0°-60°	2691.3	81.5
0°-90°	3302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3302.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1261	1261	1261	1261	1261	
5°	1251	1251	1256	1259	1261	119
15°	1187	1192	1208	1225	1231	335
25°	1074	1083	1111	1139	1152	494
35°	917	929	965	998	1010	573
45°	736	748	781	809	824	568
55°	546	554	579	598	607	488
65°	358	360	372	386	390	354
75°	179	179	184	187	189	192
85°	40	38	36	33	33	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1261.0	1261.0	1261.0	1261.0	1261.0
2.5°	1256.1	1256.1	1259.4	1262.6	1264.3
5°	1251.1	1251.1	1256.1	1259.4	1261.0
7.5°	1241.3	1241.3	1247.9	1254.4	1257.7
10°	1226.5	1229.8	1238.0	1247.9	1251.1
12.5°	1210.0	1213.3	1224.8	1238.0	1242.9
15°	1187.0	1192.0	1208.4	1224.8	1231.4
17.5°	1162.4	1168.9	1188.7	1208.4	1216.6
20°	1136.1	1142.6	1167.3	1190.3	1200.2
22.5°	1106.5	1114.7	1142.6	1167.3	1177.2
25°	1073.6	1083.4	1111.4	1139.3	1152.5
27.5°	1037.4	1048.9	1080.2	1109.7	1121.3
30°	999.6	1012.7	1044.0	1075.2	1086.7
32.5°	958.5	970.0	1007.8	1037.4	1048.9
35°	917.4	928.9	965.1	998.0	1009.5
37.5°	873.0	887.8	924.0	953.6	965.1
40°	827.0	841.8	876.3	910.8	920.7
42.5°	782.6	795.7	828.6	859.9	869.7
45°	736.5	748.1	780.9	808.9	823.7
47.5°	688.9	700.4	733.3	759.6	767.8
50°	641.2	652.7	680.6	703.7	713.5
52.5°	593.5	605.0	631.3	652.7	662.6
55°	545.8	554.1	578.7	598.4	606.7
57.5°	498.2	504.7	524.5	545.8	550.8
60°	448.8	457.1	475.1	489.9	496.5
62.5°	404.4	407.7	424.2	437.3	445.5
65°	358.4	360.1	371.6	386.4	389.6
67.5°	310.7	312.4	323.9	332.1	335.4
70°	266.3	266.3	274.6	281.1	284.4
72.5°	223.6	221.9	226.9	233.5	236.7
75°	179.2	179.2	184.1	187.4	189.1
77.5°	141.4	138.1	141.4	144.7	144.7
80°	103.6	101.9	101.9	103.6	101.9
82.5°	70.7	69.1	70.7	67.4	65.8
85°	39.5	37.8	36.2	32.9	32.9
87.5°	13.2	11.5	11.5	13.2	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)