

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: P297116

Luminaire Tested: **D3X-WG-74L82765-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297116  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-74L82765-LD5-UNV-24-T1-W2A-5000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7198.0 lumens  
Efficiency: N/A  
Efficacy: 127.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

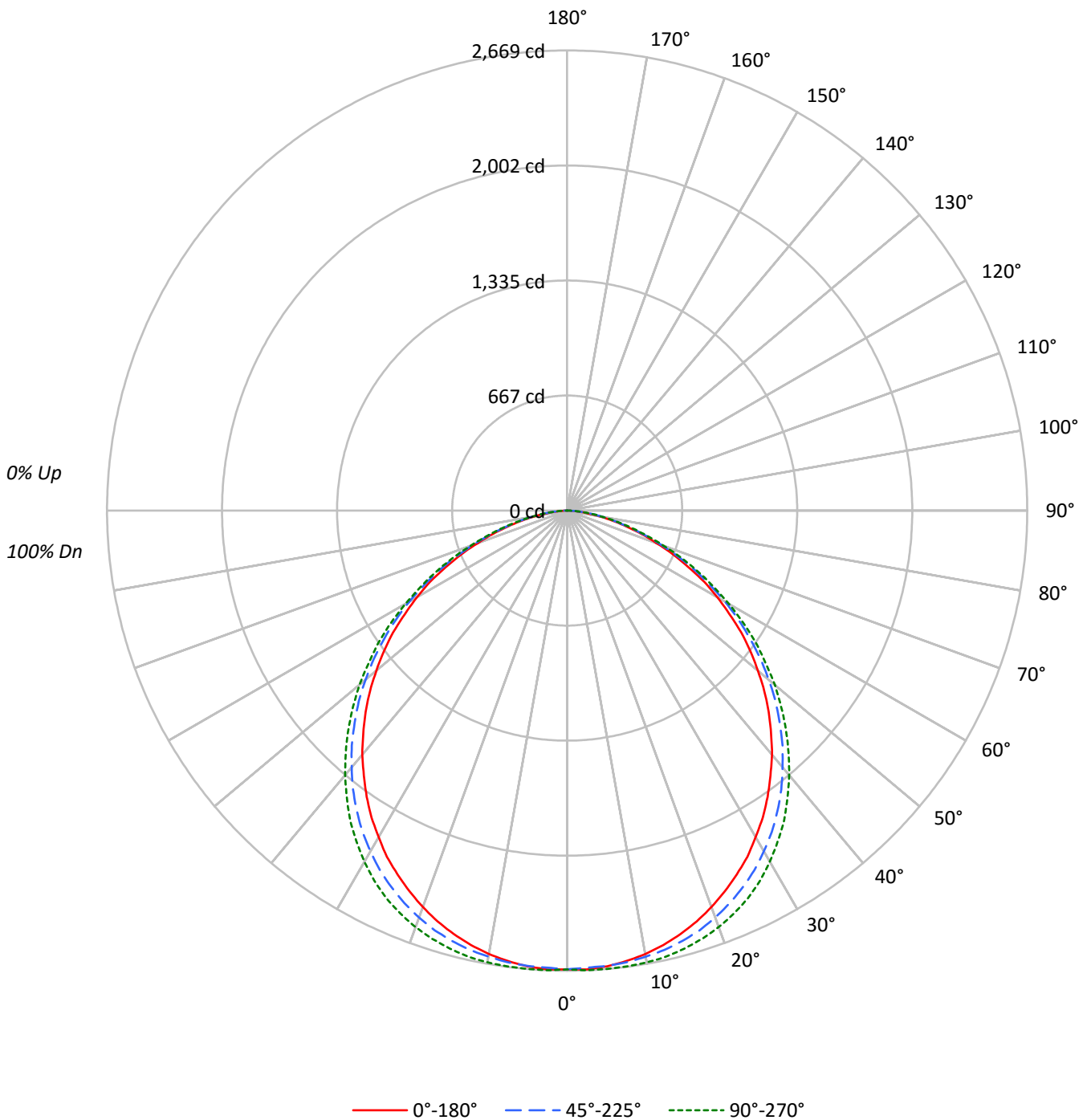
Input Watts (W): 56.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
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		47	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	27		38	32	27		37	31	27	26

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

	0°	45°	90°
0°	3580	3580	3580
5°	3583	3580	3604
10°	3569	3590	3635
15°	3541	3599	3663
20°	3504	3596	3681
25°	3457	3579	3683
30°	3397	3545	3653
35°	3329	3494	3604
40°	3247	3415	3519
45°	3145	3317	3415
50°	3022	3195	3292
55°	2891	3036	3133
60°	2706	2845	2914
65°	2471	2602	2668
70°	2171	2282	2343
75°	1836	1930	1997
80°	1458	1598	1638
85°	996	1195	1155



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.8	3.5
10°-20°	729.9	10.1
20°-30°	1109.3	15.4
30°-40°	1323.7	18.4
40°-50°	1336.9	18.6
50°-60°	1151.8	16.0
60°-70°	802.9	11.2
70°-80°	397.9	5.5
80°-90°	92.8	1.3
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°	2092.1	29.1
0°-40°	3415.7	47.5
0°-60°	5904.4	82.0
0°-90°	7198.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7198.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2661	2661	2661	2661	2661	
5°	2653	2651	2651	2664	2669	252
15°	2542	2555	2584	2617	2630	717
25°	2328	2359	2411	2460	2480	1073
35°	2027	2060	2127	2176	2194	1267
45°	1653	1689	1743	1784	1795	1274
55°	1232	1258	1294	1325	1336	1098
65°	776	792	817	825	838	771
75°	353	358	371	379	384	381
85°	64	77	77	72	75	82
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2660.9	2660.9	2660.9	2660.9	2660.9
2.5°	2663.5	2658.4	2653.2	2663.5	2668.7
5°	2653.2	2650.6	2650.6	2663.5	2668.7
7.5°	2635.2	2635.2	2642.9	2660.9	2666.1
10°	2612.0	2617.1	2627.4	2653.2	2660.9
12.5°	2581.0	2591.3	2609.4	2640.3	2650.6
15°	2542.3	2555.2	2583.6	2617.1	2630.0
17.5°	2498.5	2516.6	2552.7	2591.3	2604.2
20°	2446.9	2470.1	2511.4	2555.2	2570.7
22.5°	2390.2	2418.6	2465.0	2511.4	2529.4
25°	2328.3	2359.3	2410.8	2459.8	2480.5
27.5°	2263.9	2294.8	2351.5	2400.5	2421.2
30°	2186.5	2222.6	2281.9	2333.5	2351.5
32.5°	2111.7	2147.8	2209.7	2256.1	2274.2
35°	2026.7	2060.2	2127.2	2176.2	2194.3
37.5°	1936.4	1975.1	2039.5	2083.4	2098.8
40°	1848.7	1882.3	1944.1	1988.0	2003.4
42.5°	1750.8	1786.9	1848.7	1887.4	1900.3
45°	1652.8	1688.9	1743.0	1784.3	1794.6
47.5°	1552.2	1585.7	1639.9	1673.4	1683.7
50°	1443.9	1474.9	1526.4	1560.0	1572.8
52.5°	1340.8	1369.2	1413.0	1441.3	1449.1
55°	1232.5	1258.3	1294.4	1325.3	1335.6
57.5°	1116.5	1144.8	1178.3	1204.1	1211.9
60°	1005.6	1028.8	1057.2	1080.4	1082.9
62.5°	897.3	907.6	933.4	954.0	956.6
65°	776.1	791.6	817.4	825.1	838.0
67.5°	665.2	675.6	696.2	706.5	716.8
70°	551.8	559.5	580.1	593.0	595.6
72.5°	453.8	456.4	471.9	482.2	484.7
75°	353.2	358.4	371.3	379.0	384.2
77.5°	268.2	273.3	283.6	288.8	288.8
80°	188.2	196.0	206.3	208.9	211.4
82.5°	121.2	131.5	139.2	141.8	136.7
85°	64.5	77.4	77.4	72.2	74.8
87.5°	23.2	28.4	30.9	33.5	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)