

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: P297117

Luminaire Tested: **D3X-WG-74L82765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297117  
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-5500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7269.0 lumens  
Efficiency: N/A  
Efficacy: 128.4 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

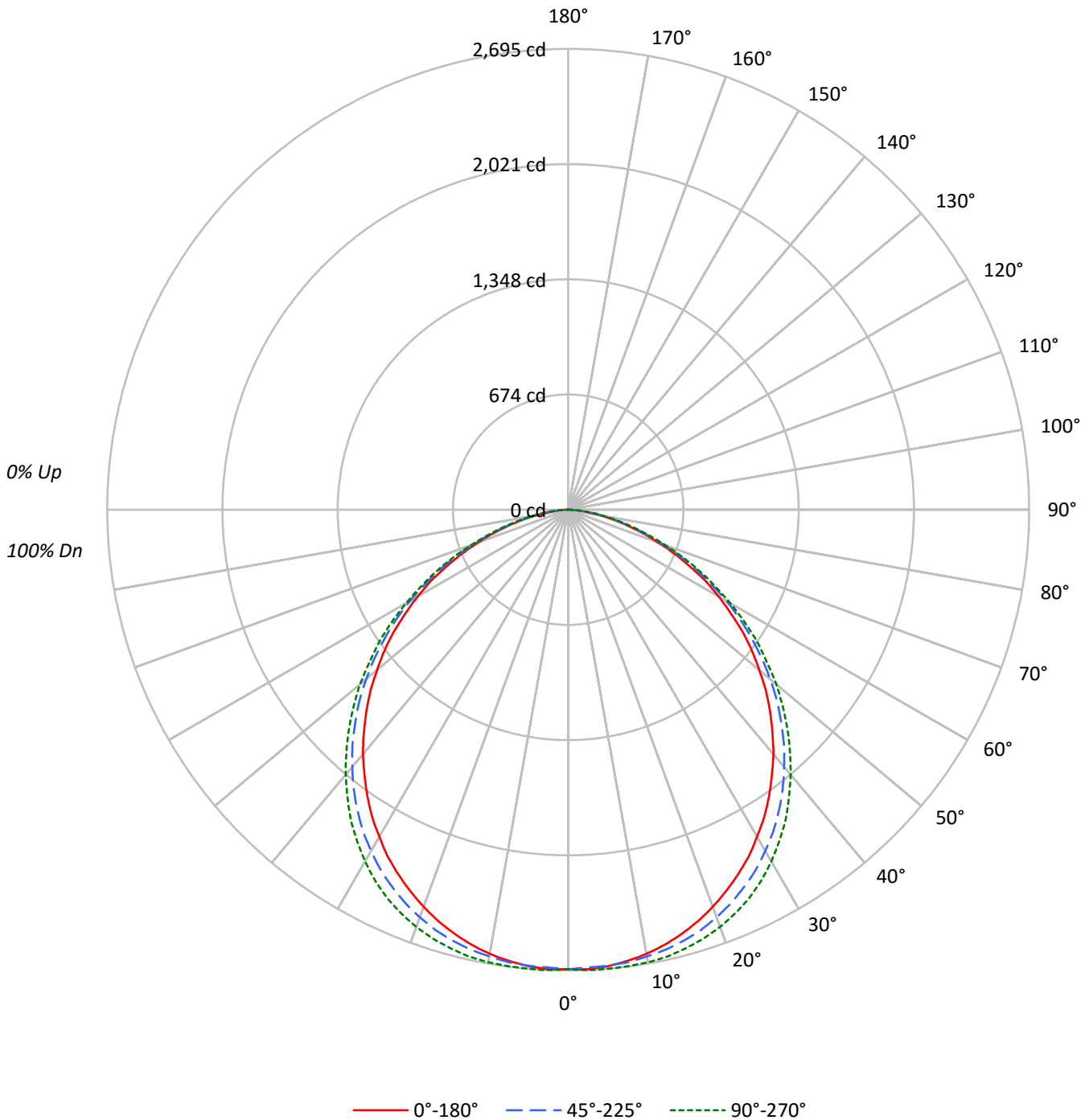
Input Watts (W): 56.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3616	3616	3616
5°	3619	3615	3640
10°	3604	3625	3671
15°	3576	3634	3700
20°	3538	3631	3717
25°	3491	3614	3719
30°	3431	3580	3689
35°	3362	3529	3640
40°	3279	3448	3554
45°	3176	3349	3448
50°	3052	3227	3325
55°	2920	3066	3164
60°	2733	2873	2943
65°	2495	2628	2694
70°	2192	2305	2366
75°	1854	1949	2017
80°	1473	1614	1654
85°	1005	1206	1166



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	255.3	3.5
10°-20°	737.1	10.1
20°-30°	1120.2	15.4
30°-40°	1336.7	18.4
40°-50°	1350.0	18.6
50°-60°	1163.2	16.0
60°-70°	810.8	11.2
70°-80°	401.8	5.5
80°-90°	93.7	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°	2112.7	29.1
0°-40°	3449.4	47.5
0°-60°	5962.6	82.0
0°-90°	7269.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7269.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2687	2687	2687	2687	2687	
5°	2679	2677	2677	2690	2695	254
15°	2567	2580	2609	2643	2656	724
25°	2351	2382	2435	2484	2505	1083
35°	2047	2080	2148	2198	2216	1279
45°	1669	1706	1760	1802	1812	1287
55°	1245	1271	1307	1338	1349	1109
65°	784	799	825	833	846	778
75°	357	362	375	383	388	385
85°	65	78	78	73	76	83
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2687.2	2687.2	2687.2	2687.2	2687.2
2.5°	2689.8	2684.6	2679.4	2689.8	2695.0
5°	2679.4	2676.8	2676.8	2689.8	2695.0
7.5°	2661.2	2661.2	2669.0	2687.2	2692.4
10°	2637.7	2642.9	2653.3	2679.4	2687.2
12.5°	2606.5	2616.9	2635.1	2666.4	2676.8
15°	2567.4	2580.4	2609.1	2642.9	2655.9
17.5°	2523.2	2541.4	2577.8	2616.9	2629.9
20°	2471.1	2494.5	2536.2	2580.4	2596.1
22.5°	2413.8	2442.4	2489.3	2536.2	2554.4
25°	2351.3	2382.5	2434.6	2484.1	2504.9
27.5°	2286.2	2317.4	2374.7	2424.2	2445.0
30°	2208.1	2244.5	2304.4	2356.5	2374.7
32.5°	2132.6	2169.0	2231.5	2278.4	2296.6
35°	2046.6	2080.5	2148.2	2197.7	2215.9
37.5°	1955.5	1994.6	2059.7	2103.9	2119.6
40°	1867.0	1900.8	1963.3	2007.6	2023.2
42.5°	1768.0	1804.5	1867.0	1906.0	1919.1
45°	1669.1	1705.5	1760.2	1801.9	1812.3
47.5°	1567.5	1601.4	1656.1	1689.9	1700.3
50°	1458.2	1489.4	1541.5	1575.3	1588.4
52.5°	1354.0	1382.7	1426.9	1455.6	1463.4
55°	1244.7	1270.7	1307.1	1338.4	1348.8
57.5°	1127.5	1156.1	1190.0	1216.0	1223.8
60°	1015.5	1038.9	1067.6	1091.0	1093.6
62.5°	906.1	916.6	942.6	963.4	966.0
65°	783.8	799.4	825.4	833.2	846.3
67.5°	671.8	682.2	703.0	713.5	723.9
70°	557.2	565.0	585.9	598.9	601.5
72.5°	458.3	460.9	476.5	486.9	489.5
75°	356.7	361.9	375.0	382.8	388.0
77.5°	270.8	276.0	286.4	291.6	291.6
80°	190.1	197.9	208.3	210.9	213.5
82.5°	122.4	132.8	140.6	143.2	138.0
85°	65.1	78.1	78.1	72.9	75.5
87.5°	23.4	28.6	31.2	33.9	33.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)