

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: P296833

Luminaire Tested: **D3X-WD-74L82765-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296833  
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-74L82765-LD5-UNV-24-T1-W2A-3500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6816.0 lumens  
Efficiency: N/A  
Efficacy: 123.3 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

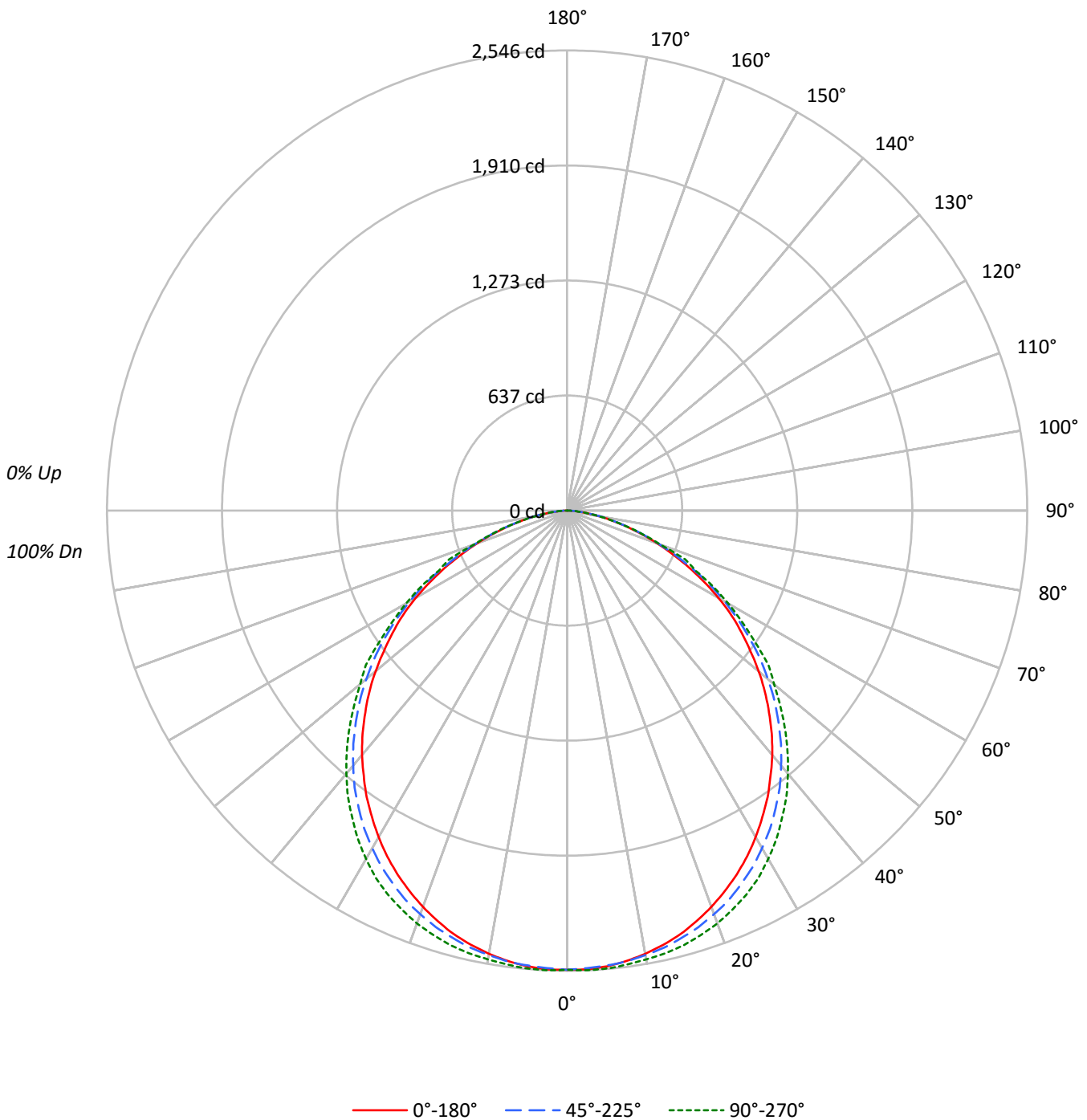
Input Watts (W): 55.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3419	3419	3419
5°	3419	3412	3435
10°	3401	3411	3445
15°	3379	3410	3468
20°	3341	3404	3481
25°	3297	3384	3482
30°	3241	3351	3458
35°	3177	3302	3406
40°	3101	3234	3338
45°	3006	3146	3244
50°	2897	3036	3128
55°	2765	2891	2978
60°	2606	2705	2771
65°	2367	2445	2492
70°	2078	2126	2155
75°	1755	1780	1792
80°	1402	1421	1383
85°	943	982	943



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.8	3.5
10°-20°	692.5	10.2
20°-30°	1050.7	15.4
30°-40°	1254.4	18.4
40°-50°	1270.0	18.6
50°-60°	1097.7	16.1
60°-70°	760.8	11.2
70°-80°	368.1	5.4
80°-90°	80.9	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°	1984.0	29.1
0°-40°	3238.4	47.5
0°-60°	5606.1	82.2
0°-90°	6816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6816.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2541	2541	2541	2541	2541	
5°	2531	2529	2526	2538	2543	240
15°	2426	2431	2448	2477	2490	684
25°	2221	2235	2279	2326	2345	1023
35°	1934	1952	2010	2062	2074	1208
45°	1580	1602	1653	1695	1705	1219
55°	1179	1191	1233	1284	1269	1053
65°	744	751	768	780	783	736
75°	338	340	342	340	345	362
85°	61	66	64	61	61	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2541.0	2541.0	2541.0	2541.0	2541.0
2.5°	2541.0	2538.5	2533.6	2541.0	2545.8
5°	2531.2	2528.7	2526.3	2538.5	2543.4
7.5°	2514.1	2514.1	2516.5	2528.7	2533.6
10°	2489.6	2492.0	2496.9	2516.5	2521.4
12.5°	2460.3	2465.1	2477.4	2499.4	2509.2
15°	2426.0	2430.9	2448.0	2477.4	2489.6
17.5°	2382.0	2391.8	2416.2	2450.5	2462.7
20°	2333.1	2345.3	2377.1	2416.2	2430.9
22.5°	2279.3	2291.5	2333.1	2374.7	2389.3
25°	2220.6	2235.3	2279.3	2325.7	2345.3
27.5°	2157.0	2174.1	2223.0	2271.9	2291.5
30°	2086.1	2105.6	2157.0	2208.4	2225.5
32.5°	2010.3	2029.8	2088.5	2137.4	2154.6
35°	1934.5	1951.6	2010.3	2061.6	2073.9
37.5°	1848.9	1868.4	1932.0	1976.0	1993.1
40°	1765.7	1785.3	1841.5	1885.5	1900.2
42.5°	1675.2	1694.8	1751.0	1792.6	1804.8
45°	1579.8	1601.9	1653.2	1694.8	1704.6
47.5°	1484.5	1501.6	1555.4	1592.1	1599.4
50°	1384.2	1401.3	1450.2	1486.9	1494.2
52.5°	1279.0	1305.9	1345.1	1372.0	1403.8
55°	1178.8	1191.0	1232.6	1283.9	1269.3
57.5°	1078.5	1085.8	1120.1	1142.1	1147.0
60°	968.4	978.2	1005.1	1017.4	1029.6
62.5°	853.5	860.8	892.6	904.9	909.8
65°	743.5	750.8	767.9	780.1	782.6
67.5°	631.0	638.3	653.0	662.8	706.8
70°	528.2	533.1	540.5	560.0	547.8
72.5°	430.4	432.9	440.2	440.2	442.6
75°	337.5	339.9	342.4	339.9	344.8
77.5°	251.9	256.8	259.2	256.8	254.3
80°	181.0	185.9	183.4	178.5	178.5
82.5°	117.4	119.8	117.4	114.9	114.9
85°	61.1	66.0	63.6	61.1	61.1
87.5°	22.0	24.5	26.9	29.3	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)