

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: P297126

Luminaire Tested: **D3X-WG-80L82765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297126  
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-80L82765-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: 7884.0 lumens  
Efficiency: N/A  
Efficacy: 126.3 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

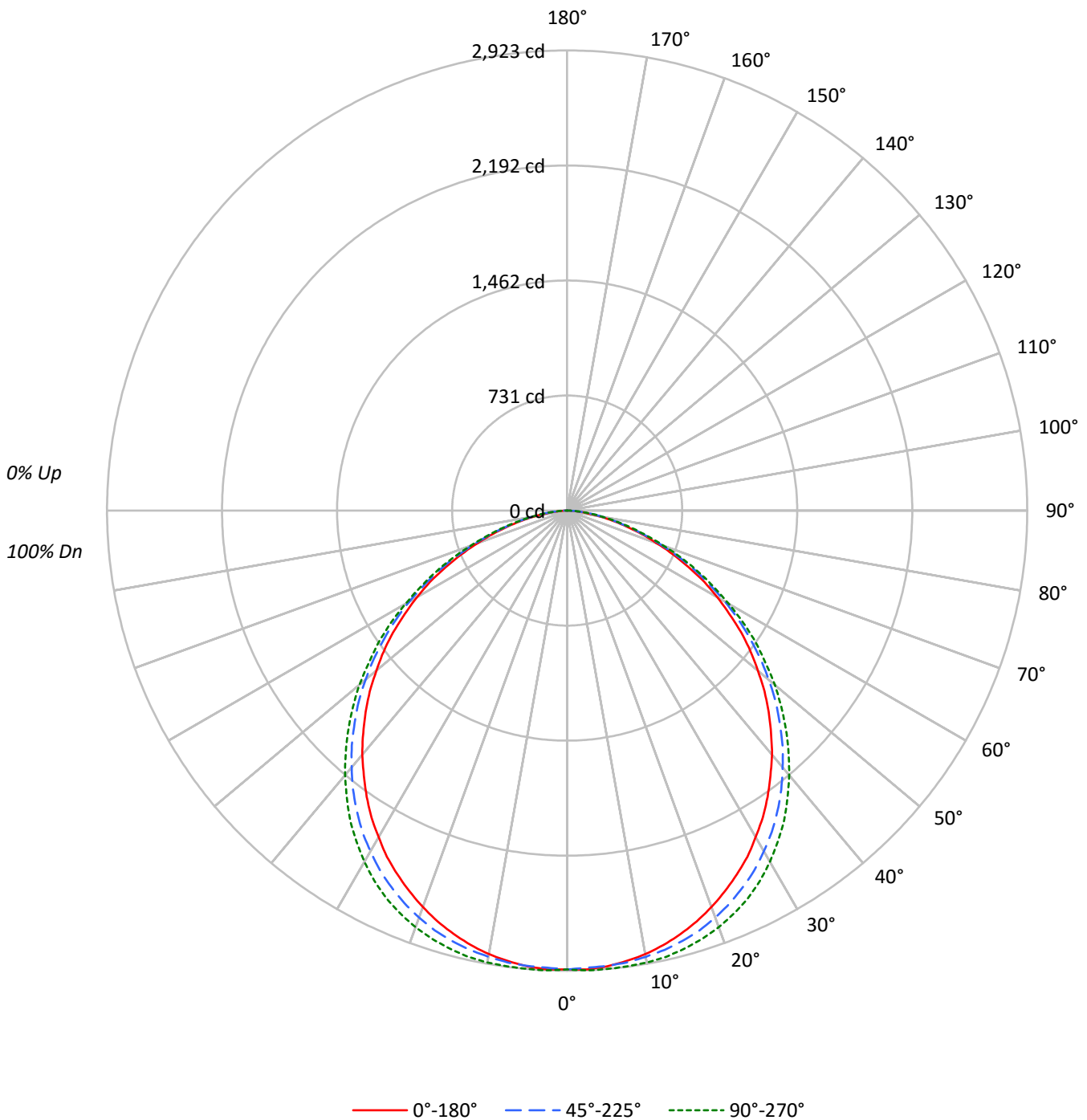
Input Watts (W): 62.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3921	3921	3921
5°	3925	3921	3948
10°	3909	3932	3982
15°	3879	3942	4013
20°	3837	3939	4032
25°	3786	3920	4033
30°	3721	3883	4002
35°	3646	3827	3948
40°	3557	3740	3854
45°	3445	3633	3740
50°	3310	3500	3606
55°	3167	3326	3432
60°	2964	3116	3192
65°	2706	2850	2922
70°	2378	2500	2567
75°	2011	2114	2188
80°	1598	1750	1795
85°	1090	1308	1264



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.9	3.5
10°-20°	799.5	10.1
20°-30°	1215.0	15.4
30°-40°	1449.8	18.4
40°-50°	1464.3	18.6
50°-60°	1261.5	16.0
60°-70°	879.4	11.2
70°-80°	435.8	5.5
80°-90°	101.6	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°	2291.5	29.1
0°-40°	3741.3	47.5
0°-60°	6467.1	82.0
0°-90°	7884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7884.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2914	2914	2914	2914	2914	
5°	2906	2903	2903	2917	2923	276
15°	2785	2799	2830	2866	2881	785
25°	2550	2584	2641	2694	2717	1175
35°	2220	2256	2330	2384	2403	1387
45°	1810	1850	1909	1954	1966	1395
55°	1350	1378	1418	1452	1463	1203
65°	850	867	895	904	918	844
75°	387	393	407	415	421	417
85°	71	85	85	79	82	90
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2914.5	2914.5	2914.5	2914.5	2914.5
2.5°	2917.4	2911.7	2906.1	2917.4	2923.0
5°	2906.1	2903.3	2903.3	2917.4	2923.0
7.5°	2886.3	2886.3	2894.8	2914.5	2920.2
10°	2860.9	2866.5	2877.8	2906.1	2914.5
12.5°	2827.0	2838.3	2858.1	2892.0	2903.3
15°	2784.6	2798.8	2829.8	2866.5	2880.7
17.5°	2736.6	2756.4	2795.9	2838.3	2852.4
20°	2680.1	2705.6	2750.7	2798.8	2815.7
22.5°	2618.0	2649.1	2699.9	2750.7	2770.5
25°	2550.2	2584.1	2640.6	2694.3	2716.9
27.5°	2479.6	2513.5	2575.6	2629.3	2651.9
30°	2394.9	2434.4	2499.4	2555.9	2575.6
32.5°	2313.0	2352.5	2420.3	2471.2	2490.9
35°	2219.8	2256.5	2329.9	2383.6	2403.4
37.5°	2121.0	2163.3	2233.9	2281.9	2298.9
40°	2024.9	2061.6	2129.4	2177.4	2194.4
42.5°	1917.6	1957.2	2024.9	2067.3	2081.4
45°	1810.3	1849.8	1909.1	1954.3	1965.6
47.5°	1700.2	1736.9	1796.2	1832.9	1844.2
50°	1581.5	1615.4	1671.9	1708.6	1722.7
52.5°	1468.6	1499.6	1547.6	1578.7	1587.2
55°	1350.0	1378.2	1417.7	1451.6	1462.9
57.5°	1222.9	1253.9	1290.6	1318.9	1327.4
60°	1101.4	1126.8	1157.9	1183.3	1186.2
62.5°	982.8	994.1	1022.4	1044.9	1047.8
65°	850.1	867.0	895.3	903.7	917.9
67.5°	728.6	739.9	762.5	773.8	785.1
70°	604.4	612.8	635.4	649.6	652.4
72.5°	497.1	499.9	516.8	528.1	530.9
75°	386.9	392.6	406.7	415.2	420.8
77.5°	293.7	299.4	310.7	316.3	316.3
80°	206.2	214.6	225.9	228.8	231.6
82.5°	132.7	144.0	152.5	155.3	149.7
85°	70.6	84.7	84.7	79.1	81.9
87.5°	25.4	31.1	33.9	36.7	36.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)