

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: P296845

Luminaire Tested: **D3X-WD-80L82765-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296845  
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-80L82765-LD5-UNV-24-T1-W2A-5000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7793.0 lumens  
Efficiency: N/A  
Efficacy: 125.5 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

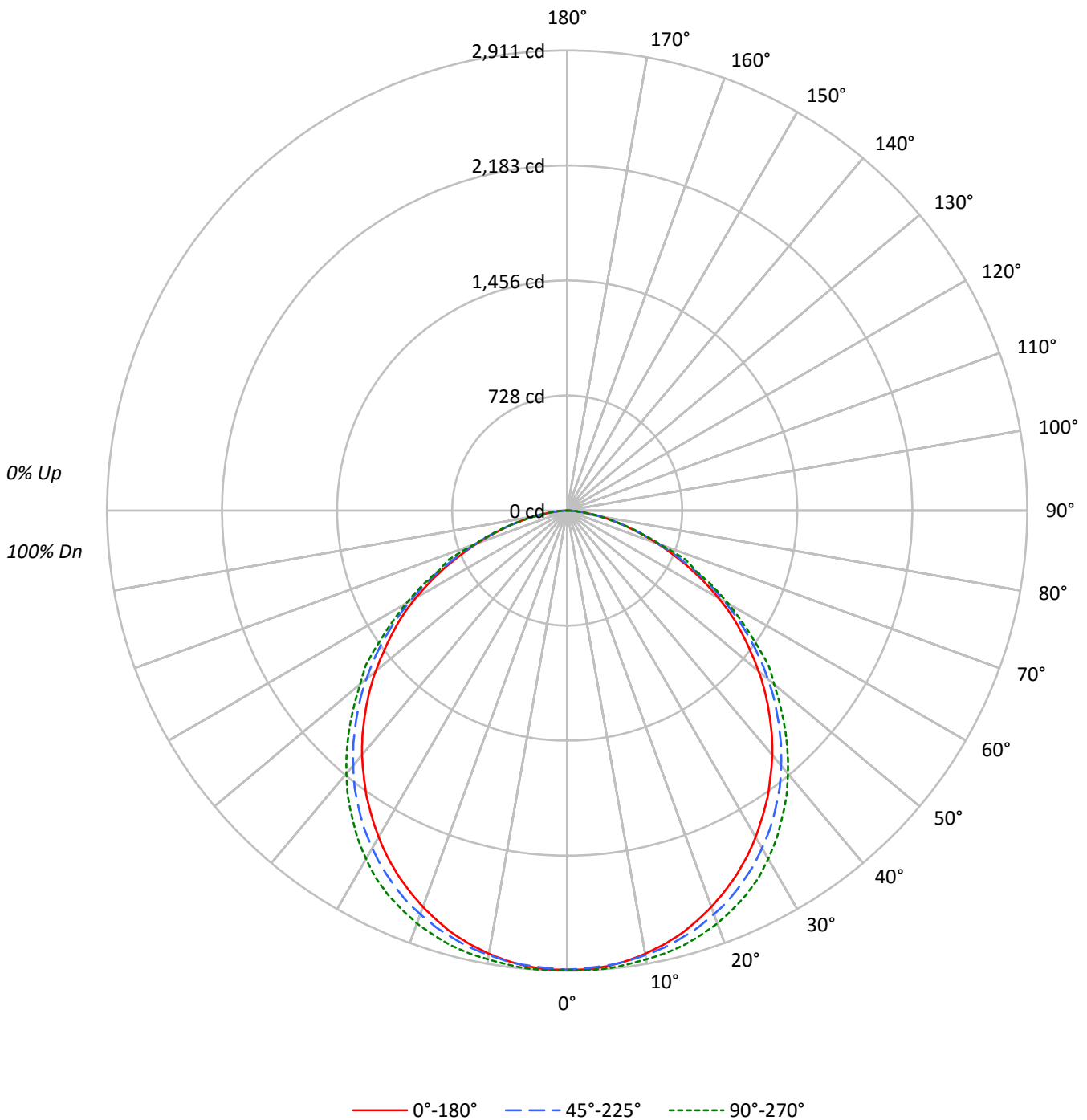
Input Watts (W): 62.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P296845

CATALOG NUMBER: D3X-WD-80L82765-LD5-UNV-24-T1-W2A-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P296845

CATALOG NUMBER: D3X-WD-80L82765-LD5-UNV-24-T1-W2A-5000K

**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°	3909	3909	3909
5°	3909	3901	3928
10°	3889	3900	3939
15°	3864	3899	3965
20°	3819	3891	3980
25°	3769	3869	3981
30°	3706	3832	3953
35°	3633	3775	3895
40°	3546	3698	3816
45°	3437	3597	3708
50°	3313	3471	3576
55°	3161	3306	3404
60°	2980	3092	3168
65°	2706	2795	2849
70°	2376	2431	2464
75°	2006	2035	2050
80°	1603	1625	1581
85°	1079	1122	1079



TEST NUMBER: P296845

CATALOG NUMBER: D3X-WD-80L82765-LD5-UNV-24-T1-W2A-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.3	3.5
10°-20°	791.8	10.2
20°-30°	1201.3	15.4
30°-40°	1434.2	18.4
40°-50°	1452.0	18.6
50°-60°	1255.1	16.1
60°-70°	869.9	11.2
70°-80°	420.9	5.4
80°-90°	92.5	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°	2268.4	29.1
0°-40°	3702.6	47.5
0°-60°	6409.7	82.2
0°-90°	7793.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7793.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2905	2905	2905	2905	2905	
5°	2894	2891	2888	2902	2908	275
15°	2774	2779	2799	2832	2846	782
25°	2539	2556	2606	2659	2682	1169
35°	2212	2231	2298	2357	2371	1382
45°	1806	1832	1890	1938	1949	1393
55°	1348	1362	1409	1468	1451	1204
65°	850	858	878	892	895	841
75°	386	389	392	389	394	414
85°	70	76	73	70	70	90
90°	0	0	0	0	0	



TEST NUMBER: P296845

CATALOG NUMBER: D3X-WD-80L82765-LD5-UNV-24-T1-W2A-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2905.2	2905.2	2905.2	2905.2	2905.2
2.5°	2905.2	2902.4	2896.8	2905.2	2910.8
5°	2894.0	2891.2	2888.4	2902.4	2908.0
7.5°	2874.4	2874.4	2877.2	2891.2	2896.8
10°	2846.5	2849.3	2854.8	2877.2	2882.8
12.5°	2812.9	2818.5	2832.5	2857.6	2868.8
15°	2773.8	2779.3	2798.9	2832.5	2846.5
17.5°	2723.4	2734.6	2762.6	2801.7	2815.7
20°	2667.5	2681.5	2717.8	2762.6	2779.3
22.5°	2606.0	2620.0	2667.5	2715.0	2731.8
25°	2538.9	2555.7	2606.0	2659.1	2681.5
27.5°	2466.2	2485.8	2541.7	2597.6	2620.0
30°	2385.1	2407.5	2466.2	2524.9	2544.5
32.5°	2298.4	2320.8	2387.9	2443.8	2463.4
35°	2211.7	2231.3	2298.4	2357.1	2371.1
37.5°	2113.9	2136.2	2208.9	2259.3	2278.8
40°	2018.8	2041.2	2105.5	2155.8	2172.6
42.5°	1915.3	1937.7	2002.0	2049.6	2063.5
45°	1806.3	1831.5	1890.2	1937.7	1948.9
47.5°	1697.2	1716.8	1778.3	1820.3	1828.7
50°	1582.6	1602.2	1658.1	1700.0	1708.4
52.5°	1462.4	1493.1	1537.9	1568.6	1605.0
55°	1347.7	1361.7	1409.2	1468.0	1451.2
57.5°	1233.1	1241.5	1280.6	1305.8	1311.4
60°	1107.3	1118.5	1149.2	1163.2	1177.2
62.5°	975.8	984.2	1020.6	1034.6	1040.2
65°	850.0	858.4	878.0	892.0	894.8
67.5°	721.4	729.8	746.6	757.8	808.1
70°	604.0	609.6	617.9	640.3	626.3
72.5°	492.1	494.9	503.3	503.3	506.1
75°	385.9	388.7	391.5	388.7	394.3
77.5°	288.0	293.6	296.4	293.6	290.8
80°	206.9	212.5	209.7	204.1	204.1
82.5°	134.2	137.0	134.2	131.4	131.4
85°	69.9	75.5	72.7	69.9	69.9
87.5°	25.2	28.0	30.8	33.6	33.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)