

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: P297406

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-80L82765-LD5-UNV-24-T1-W2A-5500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8384.0 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

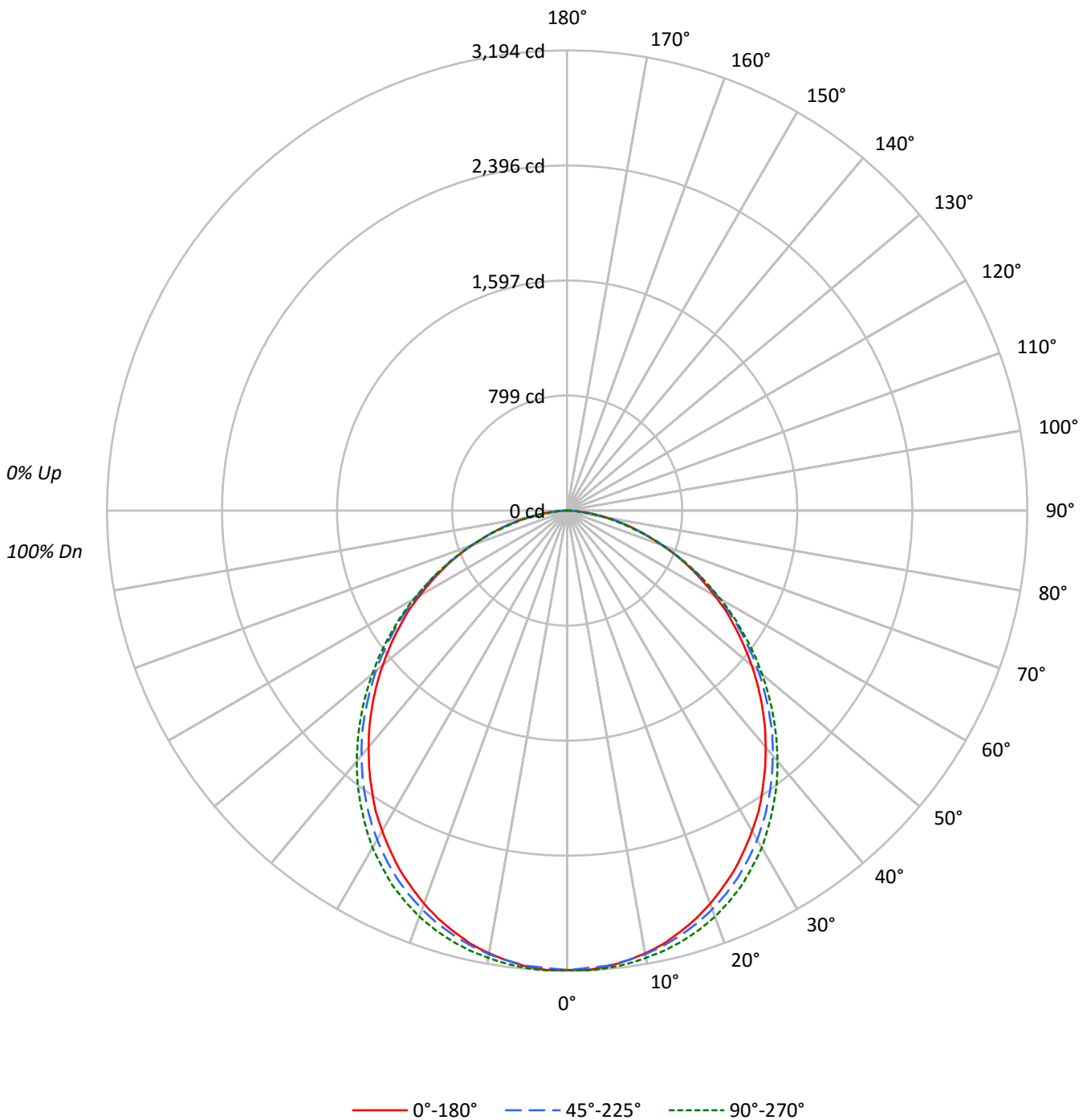
Input Watts (W): 62.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P297406

CATALOG NUMBER: D3X-WO-80L82765-LD5-UNV-24-T1-W2A-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P297406

CATALOG NUMBER: D3X-WO-80L82765-LD5-UNV-24-T1-W2A-5500K

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	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					100			
1	109	105	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	41	39					39			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4290	4290	4290
5°	4291	4284	4307
10°	4264	4272	4306
15°	4217	4249	4308
20°	4157	4218	4295
25°	4084	4168	4260
30°	3989	4098	4199
35°	3883	4008	4101
40°	3765	3899	3988
45°	3638	3773	3853
50°	3500	3630	3695
55°	3352	3458	3511
60°	3185	3268	3306
65°	3003	3048	3066
70°	2755	2789	2755
75°	2481	2467	2393
80°	2101	2079	2013
85°	1570	1525	1352



TEST NUMBER: P297406

CATALOG NUMBER: D3X-WO-80L82765-LD5-UNV-24-T1-W2A-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.9	3.6
10°-20°	862.4	10.3
20°-30°	1293.0	15.4
30°-40°	1522.8	18.2
40°-50°	1523.0	18.2
50°-60°	1314.1	15.7
60°-70°	945.6	11.3
70°-80°	501.6	6.0
80°-90°	119.6	1.4
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°	2457.3	29.3
0°-40°	3980.1	47.5
0°-60°	6817.2	81.3
0°-90°	8384.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8384.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3189	3189	3189	3189	3189	
5°	3177	3174	3172	3183	3189	301
15°	3028	3036	3050	3081	3093	854
25°	2751	2768	2807	2855	2869	1265
35°	2364	2392	2440	2482	2497	1479
45°	1912	1937	1983	2016	2025	1475
55°	1429	1443	1474	1500	1497	1279
65°	943	946	957	963	963	933
75°	477	472	474	463	460	508
85°	102	102	99	90	88	123
90°	0	0	0	0	0	



TEST NUMBER: P297406

CATALOG NUMBER: D3X-WO-80L82765-LD5-UNV-24-T1-W2A-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3188.6	3188.6	3188.6	3188.6	3188.6
2.5°	3191.4	3185.8	3177.3	3188.6	3194.2
5°	3177.3	3174.5	3171.6	3182.9	3188.6
7.5°	3151.9	3154.7	3151.9	3168.8	3174.5
10°	3120.8	3123.6	3126.5	3146.2	3151.9
12.5°	3081.3	3084.1	3092.6	3118.0	3126.5
15°	3027.6	3036.1	3050.2	3081.3	3092.6
17.5°	2971.1	2982.4	3002.2	3038.9	3050.2
20°	2903.3	2917.5	2945.7	2985.2	2999.4
22.5°	2827.1	2841.2	2880.7	2923.1	2937.2
25°	2750.8	2767.8	2807.3	2855.3	2869.4
27.5°	2660.5	2683.0	2725.4	2773.4	2784.7
30°	2567.3	2587.0	2637.9	2683.0	2702.8
32.5°	2474.1	2493.8	2541.8	2587.0	2601.1
35°	2363.9	2392.1	2440.2	2482.5	2496.6
37.5°	2256.6	2282.0	2332.8	2375.2	2389.3
40°	2143.6	2166.2	2219.9	2259.4	2270.7
42.5°	2030.6	2053.2	2106.9	2138.0	2149.3
45°	1912.0	1937.4	1982.6	2016.5	2025.0
47.5°	1793.4	1813.2	1855.5	1886.6	1897.9
50°	1672.0	1691.7	1734.1	1759.5	1765.2
52.5°	1550.5	1564.6	1604.2	1626.8	1635.2
55°	1429.1	1443.2	1474.3	1499.7	1496.9
57.5°	1313.3	1318.9	1350.0	1366.9	1366.9
60°	1183.4	1189.0	1214.4	1225.7	1228.6
62.5°	1061.9	1070.4	1090.2	1093.0	1093.0
65°	943.3	946.1	957.4	963.1	963.1
67.5°	824.7	821.9	833.2	833.2	830.3
70°	700.4	706.1	708.9	703.2	700.4
72.5°	587.4	584.6	584.6	581.8	581.8
75°	477.3	471.7	474.5	463.2	460.4
77.5°	375.6	367.2	364.3	358.7	353.0
80°	271.1	271.1	268.3	262.7	259.8
82.5°	180.8	180.8	177.9	172.3	166.6
85°	101.7	101.7	98.8	90.4	87.6
87.5°	33.9	33.9	33.9	33.9	33.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)