

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: P296840

Luminaire Tested: **D3X-WD-80L82765-LD5-UNV-24-T1-W2A-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296840  
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-2700K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6945.0 lumens  
Efficiency: N/A  
Efficacy: 114.4 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

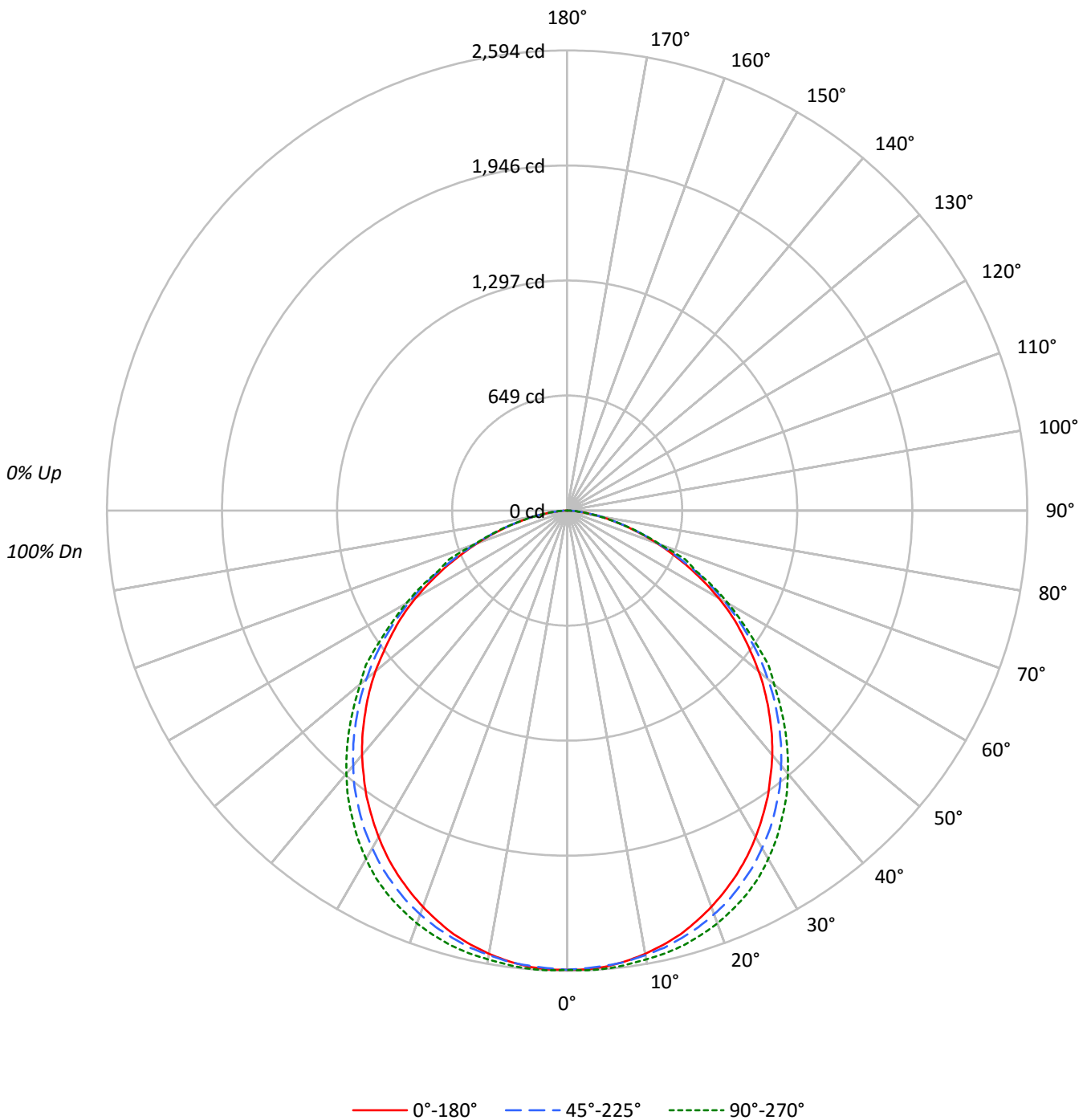
Input Watts (W): 60.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	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	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	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°	3483	3483	3483
5°	3483	3477	3500
10°	3466	3476	3510
15°	3443	3475	3534
20°	3404	3468	3547
25°	3359	3448	3548
30°	3302	3415	3523
35°	3238	3364	3471
40°	3160	3296	3401
45°	3063	3205	3305
50°	2952	3093	3187
55°	2818	2946	3034
60°	2655	2756	2823
65°	2412	2491	2539
70°	2117	2166	2196
75°	1788	1814	1827
80°	1429	1448	1409
85°	962	1000	962



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.4	3.5
10°-20°	705.6	10.2
20°-30°	1070.6	15.4
30°-40°	1278.2	18.4
40°-50°	1294.0	18.6
50°-60°	1118.5	16.1
60°-70°	775.2	11.2
70°-80°	375.1	5.4
80°-90°	82.5	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°	2021.6	29.1
0°-40°	3299.7	47.5
0°-60°	5712.2	82.2
0°-90°	6945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6945.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2589	2589	2589	2589	2589	
5°	2579	2577	2574	2587	2592	245
15°	2472	2477	2494	2524	2537	697
25°	2263	2278	2322	2370	2390	1042
35°	1971	1988	2048	2101	2113	1231
45°	1610	1632	1684	1727	1737	1242
55°	1201	1214	1256	1308	1293	1073
65°	758	765	782	795	797	750
75°	344	346	349	346	351	369
85°	62	67	65	62	62	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2589.0	2589.0	2589.0	2589.0	2589.0
2.5°	2589.0	2586.6	2581.6	2589.0	2594.0
5°	2579.1	2576.6	2574.1	2586.6	2591.5
7.5°	2561.6	2561.6	2564.1	2576.6	2581.6
10°	2536.7	2539.2	2544.2	2564.1	2569.1
12.5°	2506.8	2511.8	2524.3	2546.7	2556.7
15°	2471.9	2476.9	2494.4	2524.3	2536.7
17.5°	2427.1	2437.0	2462.0	2496.8	2509.3
20°	2377.2	2389.7	2422.1	2462.0	2476.9
22.5°	2322.4	2334.9	2377.2	2419.6	2434.6
25°	2262.6	2277.6	2322.4	2369.8	2389.7
27.5°	2197.8	2215.3	2265.1	2314.9	2334.9
30°	2125.6	2145.5	2197.8	2250.2	2267.6
32.5°	2048.3	2068.2	2128.1	2177.9	2195.3
35°	1971.1	1988.5	2048.3	2100.6	2113.1
37.5°	1883.8	1903.8	1968.6	2013.4	2030.9
40°	1799.1	1819.1	1876.4	1921.2	1936.2
42.5°	1706.9	1726.9	1784.2	1826.5	1839.0
45°	1609.7	1632.2	1684.5	1726.9	1736.8
47.5°	1512.6	1530.0	1584.8	1622.2	1629.7
50°	1410.4	1427.8	1477.7	1515.1	1522.5
52.5°	1303.2	1330.7	1370.5	1397.9	1430.3
55°	1201.1	1213.5	1255.9	1308.2	1293.3
57.5°	1098.9	1106.4	1141.3	1163.7	1168.7
60°	986.8	996.7	1024.2	1036.6	1049.1
62.5°	869.7	877.1	909.5	922.0	927.0
65°	757.5	765.0	782.4	794.9	797.4
67.5°	642.9	650.4	665.3	675.3	720.1
70°	538.2	543.2	550.7	570.6	558.2
72.5°	438.6	441.1	448.5	448.5	451.0
75°	343.9	346.4	348.9	346.4	351.4
77.5°	256.7	261.6	264.1	261.6	259.2
80°	184.4	189.4	186.9	181.9	181.9
82.5°	119.6	122.1	119.6	117.1	117.1
85°	62.3	67.3	64.8	62.3	62.3
87.5°	22.4	24.9	27.4	29.9	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)