

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: P297121

Luminaire Tested: **D3X-WG-80L82765-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297121  
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-3000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7158.0 lumens  
Efficiency: N/A  
Efficacy: 118.7 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

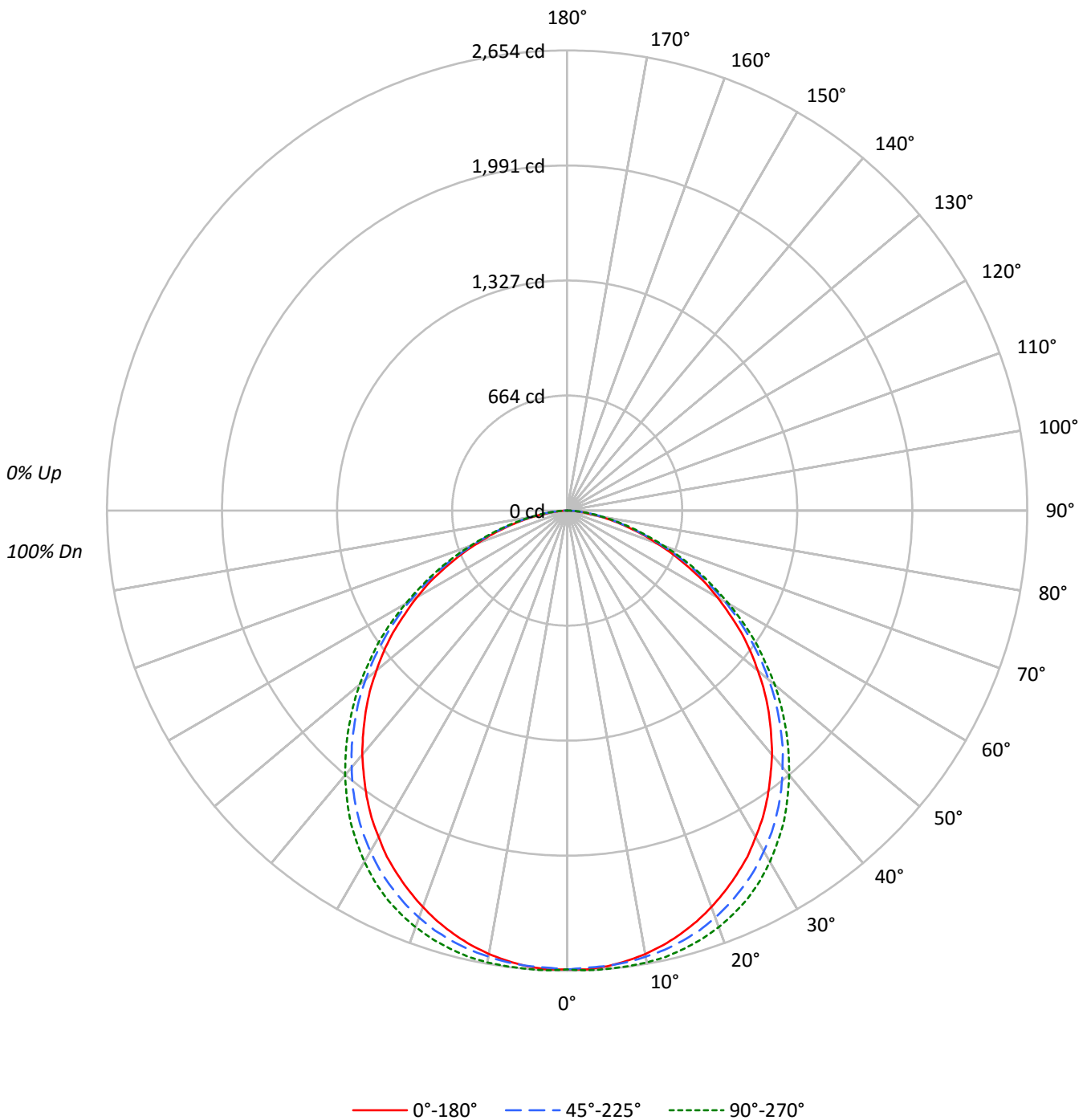
Input Watts (W): 60.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3560	3560	3560
5°	3564	3560	3584
10°	3549	3570	3615
15°	3522	3579	3643
20°	3484	3576	3660
25°	3437	3559	3662
30°	3378	3526	3633
35°	3310	3475	3584
40°	3229	3396	3499
45°	3127	3298	3396
50°	3006	3177	3274
55°	2875	3019	3116
60°	2691	2829	2898
65°	2457	2588	2653
70°	2159	2269	2330
75°	1826	1919	1986
80°	1450	1589	1629
85°	990	1187	1149



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.4	3.5
10°-20°	725.9	10.1
20°-30°	1103.1	15.4
30°-40°	1316.3	18.4
40°-50°	1329.4	18.6
50°-60°	1145.4	16.0
60°-70°	798.5	11.2
70°-80°	395.7	5.5
80°-90°	92.3	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°	2080.5	29.1
0°-40°	3396.8	47.5
0°-60°	5871.6	82.0
0°-90°	7158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7158.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2646	2646	2646	2646	2646	
5°	2638	2636	2636	2649	2654	251
15°	2528	2541	2569	2603	2615	713
25°	2315	2346	2397	2446	2467	1067
35°	2015	2049	2115	2164	2182	1260
45°	1644	1680	1733	1774	1785	1267
55°	1226	1251	1287	1318	1328	1092
65°	772	787	813	820	833	766
75°	351	356	369	377	382	379
85°	64	77	77	72	74	82
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2646.2	2646.2	2646.2	2646.2	2646.2
2.5°	2648.7	2643.6	2638.5	2648.7	2653.9
5°	2638.5	2635.9	2635.9	2648.7	2653.9
7.5°	2620.5	2620.5	2628.2	2646.2	2651.3
10°	2597.4	2602.6	2612.8	2638.5	2646.2
12.5°	2566.7	2576.9	2594.9	2625.6	2635.9
15°	2528.2	2541.0	2569.2	2602.6	2615.4
17.5°	2484.6	2502.6	2538.5	2576.9	2589.8
20°	2433.3	2456.4	2497.4	2541.0	2556.4
22.5°	2376.9	2405.1	2451.3	2497.4	2515.4
25°	2315.4	2346.2	2397.4	2446.2	2466.7
27.5°	2251.3	2282.1	2338.5	2387.2	2407.7
30°	2174.4	2210.3	2269.2	2320.5	2338.5
32.5°	2100.0	2135.9	2197.4	2243.6	2261.5
35°	2015.4	2048.7	2115.4	2164.1	2182.1
37.5°	1925.6	1964.1	2028.2	2071.8	2087.2
40°	1838.5	1871.8	1933.3	1976.9	1992.3
42.5°	1741.0	1776.9	1838.5	1876.9	1889.7
45°	1643.6	1679.5	1733.3	1774.4	1784.6
47.5°	1543.6	1576.9	1630.8	1664.1	1674.4
50°	1435.9	1466.7	1518.0	1551.3	1564.1
52.5°	1333.3	1361.5	1405.1	1433.3	1441.0
55°	1225.6	1251.3	1287.2	1318.0	1328.2
57.5°	1110.3	1138.5	1171.8	1197.4	1205.1
60°	1000.0	1023.1	1051.3	1074.4	1076.9
62.5°	892.3	902.6	928.2	948.7	951.3
65°	771.8	787.2	812.8	820.5	833.3
67.5°	661.5	671.8	692.3	702.6	712.8
70°	548.7	556.4	576.9	589.7	592.3
72.5°	451.3	453.8	469.2	479.5	482.1
75°	351.3	356.4	369.2	376.9	382.1
77.5°	266.7	271.8	282.1	287.2	287.2
80°	187.2	194.9	205.1	207.7	210.3
82.5°	120.5	130.8	138.5	141.0	135.9
85°	64.1	76.9	76.9	71.8	74.4
87.5°	23.1	28.2	30.8	33.3	33.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)