

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: P297363

Luminaire Tested: **D3X-WO-50L82765-LD5-UNV-24-T1-W2A-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297363  
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-50L82765-LD5-UNV-24-T1-W2A-6500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5217.0 lumens  
Efficiency: N/A  
Efficacy: 142.9 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

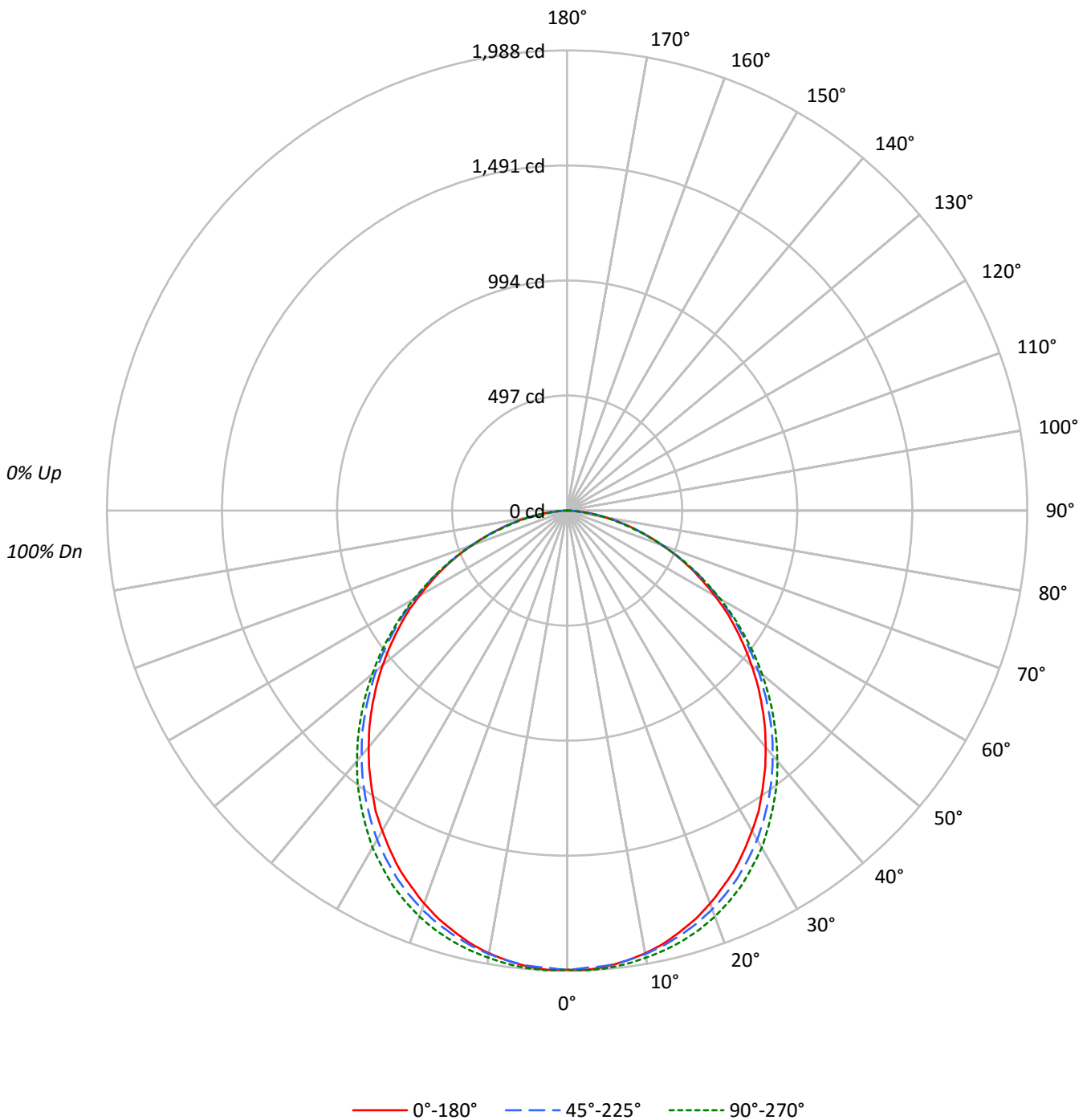
Input Watts (W): 36.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2670	2670	2670
5°	2670	2666	2680
10°	2653	2658	2680
15°	2624	2644	2681
20°	2587	2625	2672
25°	2541	2593	2651
30°	2482	2550	2613
35°	2416	2494	2552
40°	2343	2426	2482
45°	2264	2347	2398
50°	2178	2259	2299
55°	2086	2152	2185
60°	1982	2034	2057
65°	1869	1897	1908
70°	1714	1735	1714
75°	1544	1535	1489
80°	1307	1294	1253
85°	977	949	841



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.9	3.6
10°-20°	536.6	10.3
20°-30°	804.6	15.4
30°-40°	947.6	18.2
40°-50°	947.7	18.2
50°-60°	817.7	15.7
60°-70°	588.4	11.3
70°-80°	312.1	6.0
80°-90°	74.4	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°	1529.1	29.3
0°-40°	2476.7	47.5
0°-60°	4242.1	81.3
0°-90°	5217.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5217.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1984	1984	1984	1984	1984	
5°	1977	1975	1974	1981	1984	188
15°	1884	1889	1898	1917	1924	531
25°	1712	1722	1747	1777	1786	787
35°	1471	1488	1518	1545	1554	920
45°	1190	1206	1234	1255	1260	918
55°	889	898	917	933	931	796
65°	587	589	596	599	599	581
75°	297	294	295	288	286	316
85°	63	63	62	56	54	76
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1984.1	1984.1	1984.1	1984.1	1984.1
2.5°	1985.9	1982.4	1977.1	1984.1	1987.6
5°	1977.1	1975.3	1973.6	1980.6	1984.1
7.5°	1961.3	1963.0	1961.3	1971.8	1975.3
10°	1941.9	1943.7	1945.5	1957.8	1961.3
12.5°	1917.3	1919.1	1924.4	1940.2	1945.5
15°	1883.9	1889.2	1898.0	1917.3	1924.4
17.5°	1848.8	1855.8	1868.1	1891.0	1898.0
20°	1806.6	1815.4	1833.0	1857.6	1866.4
22.5°	1759.2	1768.0	1792.6	1818.9	1827.7
25°	1711.7	1722.3	1746.9	1776.7	1785.5
27.5°	1655.5	1669.5	1695.9	1725.8	1732.8
30°	1597.5	1609.8	1641.4	1669.5	1681.8
32.5°	1539.5	1551.8	1581.7	1609.8	1618.6
35°	1471.0	1488.5	1518.4	1544.8	1553.6
37.5°	1404.2	1420.0	1451.6	1478.0	1486.8
40°	1333.9	1347.9	1381.3	1405.9	1413.0
42.5°	1263.6	1277.6	1311.0	1330.4	1337.4
45°	1189.8	1205.6	1233.7	1254.8	1260.1
47.5°	1116.0	1128.3	1154.6	1174.0	1181.0
50°	1040.4	1052.7	1079.1	1094.9	1098.4
52.5°	964.8	973.6	998.2	1012.3	1017.5
55°	889.3	898.0	917.4	933.2	931.4
57.5°	817.2	820.7	840.0	850.6	850.6
60°	736.4	739.9	755.7	762.7	764.5
62.5°	660.8	666.1	678.4	680.1	680.1
65°	587.0	588.7	595.8	599.3	599.3
67.5°	513.2	511.4	518.4	518.4	516.7
70°	435.8	439.4	441.1	437.6	435.8
72.5°	365.5	363.8	363.8	362.0	362.0
75°	297.0	293.5	295.2	288.2	286.5
77.5°	233.7	228.5	226.7	223.2	219.7
80°	168.7	168.7	167.0	163.4	161.7
82.5°	112.5	112.5	110.7	107.2	103.7
85°	63.3	63.3	61.5	56.2	54.5
87.5°	21.1	21.1	21.1	21.1	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)