

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: P297290

Luminaire Tested: **D3X-WO-50L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297290  
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-50L83050-LD5-UNV-24-T1-W2A-3500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4991.0 lumens  
Efficiency: N/A  
Efficacy: 142.6 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

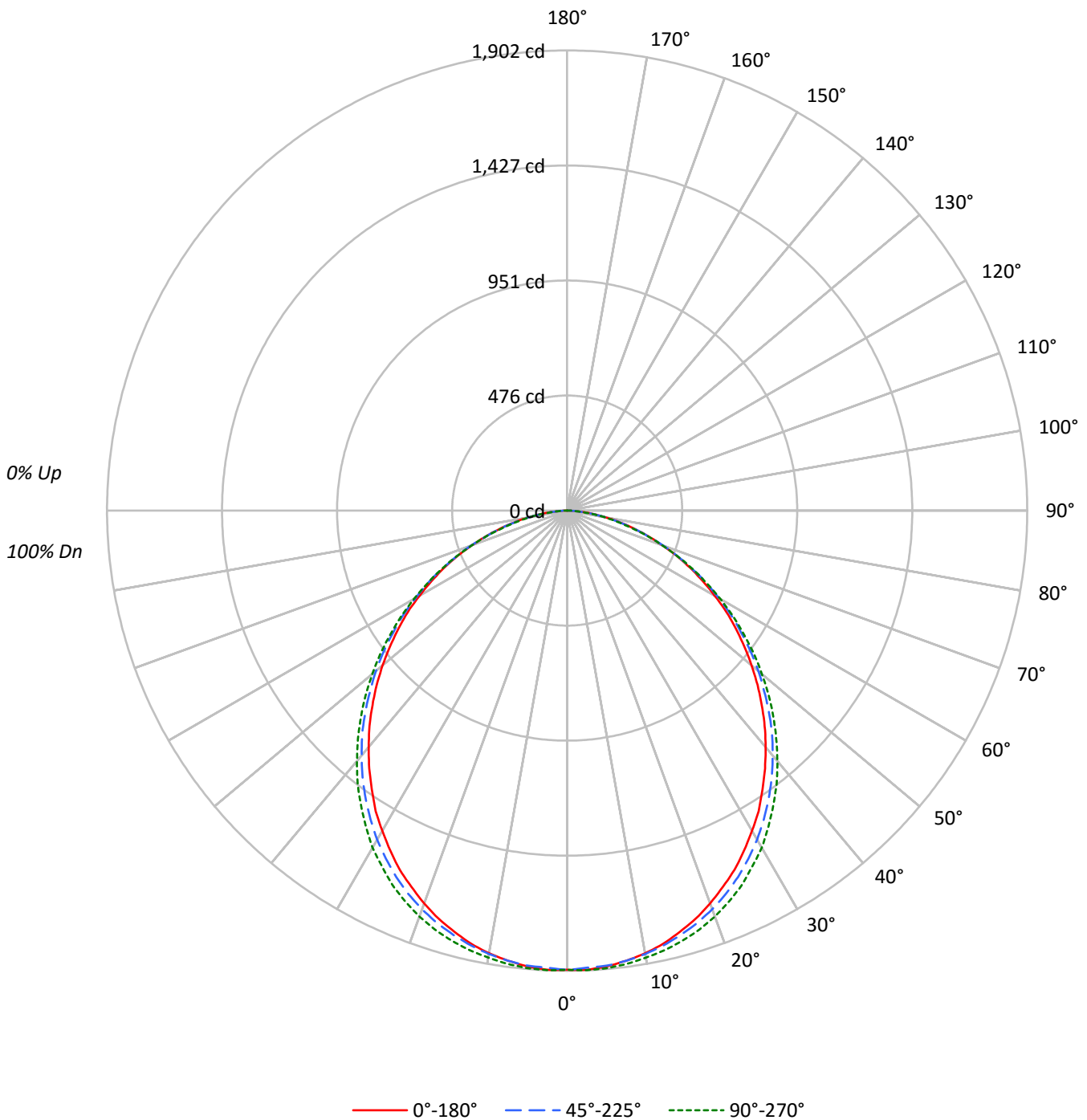
Input Watts (W): 35  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2554	2554	2554
5°	2555	2550	2564
10°	2538	2543	2563
15°	2511	2529	2564
20°	2475	2511	2557
25°	2431	2481	2536
30°	2374	2440	2500
35°	2311	2386	2441
40°	2241	2321	2374
45°	2166	2246	2294
50°	2083	2161	2200
55°	1996	2059	2090
60°	1896	1946	1968
65°	1788	1815	1825
70°	1640	1660	1640
75°	1477	1469	1424
80°	1251	1237	1199
85°	934	908	804



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.7	3.6
10°-20°	513.4	10.3
20°-30°	769.8	15.4
30°-40°	906.5	18.2
40°-50°	906.7	18.2
50°-60°	782.3	15.7
60°-70°	562.9	11.3
70°-80°	298.6	6.0
80°-90°	71.2	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°	1462.9	29.3
0°-40°	2369.4	47.5
0°-60°	4058.3	81.3
0°-90°	4991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4991.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1898	1898	1898	1898	1898	
5°	1891	1890	1888	1895	1898	179
15°	1802	1807	1816	1834	1841	508
25°	1638	1648	1671	1700	1708	753
35°	1407	1424	1453	1478	1486	880
45°	1138	1153	1180	1200	1206	878
55°	851	859	878	893	891	761
65°	562	563	570	573	573	555
75°	284	281	282	276	274	302
85°	60	60	59	54	52	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1898.2	1898.2	1898.2	1898.2	1898.2
2.5°	1899.9	1896.5	1891.4	1898.2	1901.5
5°	1891.4	1889.8	1888.1	1894.8	1898.2
7.5°	1876.3	1878.0	1876.3	1886.4	1889.8
10°	1857.8	1859.5	1861.2	1873.0	1876.3
12.5°	1834.3	1836.0	1841.0	1856.1	1861.2
15°	1802.3	1807.4	1815.8	1834.3	1841.0
17.5°	1768.7	1775.4	1787.2	1809.1	1815.8
20°	1728.4	1736.8	1753.6	1777.1	1785.5
22.5°	1683.0	1691.4	1714.9	1740.1	1748.5
25°	1637.6	1647.7	1671.2	1699.8	1708.2
27.5°	1583.8	1597.2	1622.4	1651.0	1657.7
30°	1528.3	1540.1	1570.3	1597.2	1609.0
32.5°	1472.8	1484.6	1513.2	1540.1	1548.5
35°	1407.2	1424.0	1452.6	1477.8	1486.3
37.5°	1343.3	1358.5	1388.7	1414.0	1422.4
40°	1276.1	1289.5	1321.5	1345.0	1351.8
42.5°	1208.8	1222.3	1254.2	1272.7	1279.5
45°	1138.2	1153.4	1180.3	1200.4	1205.5
47.5°	1067.6	1079.4	1104.6	1123.1	1129.8
50°	995.3	1007.1	1032.3	1047.4	1050.8
52.5°	923.0	931.4	955.0	968.4	973.5
55°	850.7	859.1	877.6	892.8	891.1
57.5°	781.8	785.2	803.7	813.7	813.7
60°	704.5	707.8	723.0	729.7	731.4
62.5°	632.2	637.2	649.0	650.7	650.7
65°	561.5	563.2	570.0	573.3	573.3
67.5°	490.9	489.3	496.0	496.0	494.3
70°	417.0	420.3	422.0	418.6	417.0
72.5°	349.7	348.0	348.0	346.3	346.3
75°	284.1	280.8	282.5	275.7	274.0
77.5°	223.6	218.6	216.9	213.5	210.2
80°	161.4	161.4	159.7	156.4	154.7
82.5°	107.6	107.6	105.9	102.6	99.2
85°	60.5	60.5	58.8	53.8	52.1
87.5°	20.2	20.2	20.2	20.2	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)