

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: P297350

Luminaire Tested: **D3X-WO-45L82765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297350  
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-45L82765-LD5-UNV-24-T1-W2A-4500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4619.0 lumens  
Efficiency: N/A  
Efficacy: 143.9 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

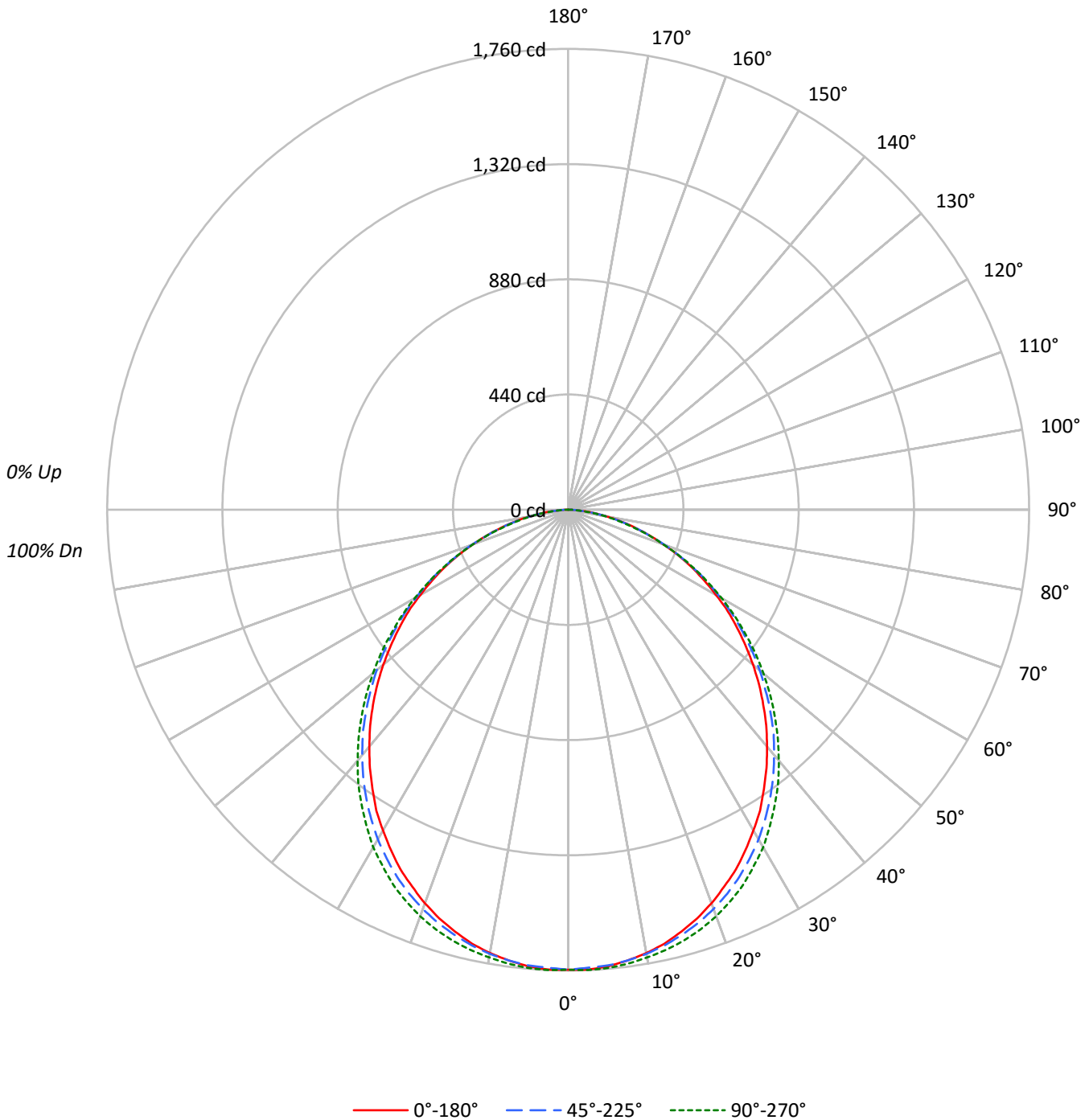
Input Watts (W): 32.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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	28	38	32	27	37	32	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2364	2364	2364
5°	2364	2360	2373
10°	2349	2353	2372
15°	2323	2341	2373
20°	2290	2324	2366
25°	2250	2296	2347
30°	2197	2258	2314
35°	2139	2208	2259
40°	2074	2148	2197
45°	2004	2078	2123
50°	1928	2000	2036
55°	1847	1905	1935
60°	1755	1801	1821
65°	1655	1679	1689
70°	1518	1536	1518
75°	1367	1359	1318
80°	1158	1145	1109
85°	865	841	744



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.3	3.6
10°-20°	475.1	10.3
20°-30°	712.4	15.4
30°-40°	838.9	18.2
40°-50°	839.1	18.2
50°-60°	724.0	15.7
60°-70°	521.0	11.3
70°-80°	276.3	6.0
80°-90°	65.9	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°	1353.8	29.3
0°-40°	2192.8	47.5
0°-60°	3755.8	81.3
0°-90°	4619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4619.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1757	1757	1757	1757	1757	
5°	1750	1749	1747	1754	1757	166
15°	1668	1673	1680	1698	1704	470
25°	1516	1525	1547	1573	1581	697
35°	1302	1318	1344	1368	1376	815
45°	1053	1067	1092	1111	1116	813
55°	787	795	812	826	825	705
65°	520	521	528	531	531	514
75°	263	260	261	255	254	280
85°	56	56	54	50	48	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1756.7	1756.7	1756.7	1756.7	1756.7
2.5°	1758.2	1755.1	1750.5	1756.7	1759.8
5°	1750.5	1748.9	1747.4	1753.6	1756.7
7.5°	1736.5	1738.0	1736.5	1745.8	1748.9
10°	1719.3	1720.9	1722.5	1733.4	1736.5
12.5°	1697.6	1699.1	1703.8	1717.8	1722.5
15°	1668.0	1672.7	1680.4	1697.6	1703.8
17.5°	1636.9	1643.1	1654.0	1674.2	1680.4
20°	1599.5	1607.3	1622.9	1644.7	1652.4
22.5°	1557.5	1565.3	1587.1	1610.4	1618.2
25°	1515.5	1524.9	1546.6	1573.1	1580.9
27.5°	1465.7	1478.2	1501.5	1528.0	1534.2
30°	1414.4	1425.3	1453.3	1478.2	1489.1
32.5°	1363.0	1373.9	1400.4	1425.3	1433.0
35°	1302.3	1317.9	1344.4	1367.7	1375.5
37.5°	1243.2	1257.2	1285.2	1308.6	1316.4
40°	1181.0	1193.4	1223.0	1244.8	1251.0
42.5°	1118.7	1131.2	1160.8	1177.9	1184.1
45°	1053.4	1067.4	1092.3	1111.0	1115.6
47.5°	988.0	998.9	1022.3	1039.4	1045.6
50°	921.1	932.0	955.4	969.4	972.5
52.5°	854.2	862.0	883.8	896.2	900.9
55°	787.3	795.1	812.2	826.2	824.7
57.5°	723.5	726.6	743.8	753.1	753.1
60°	652.0	655.1	669.1	675.3	676.8
62.5°	585.0	589.7	600.6	602.2	602.2
65°	519.7	521.3	527.5	530.6	530.6
67.5°	454.3	452.8	459.0	459.0	457.5
70°	385.9	389.0	390.5	387.4	385.9
72.5°	323.6	322.1	322.1	320.5	320.5
75°	263.0	259.8	261.4	255.2	253.6
77.5°	206.9	202.3	200.7	197.6	194.5
80°	149.4	149.4	147.8	144.7	143.1
82.5°	99.6	99.6	98.0	94.9	91.8
85°	56.0	56.0	54.5	49.8	48.2
87.5°	18.7	18.7	18.7	18.7	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)