

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: P296792

Luminaire Tested: **D3X-WD-45L82765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296792  
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-45L82765-LD5-UNV-24-T1-W2A-5500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4438.0 lumens  
Efficiency: N/A  
Efficacy: 136.6 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

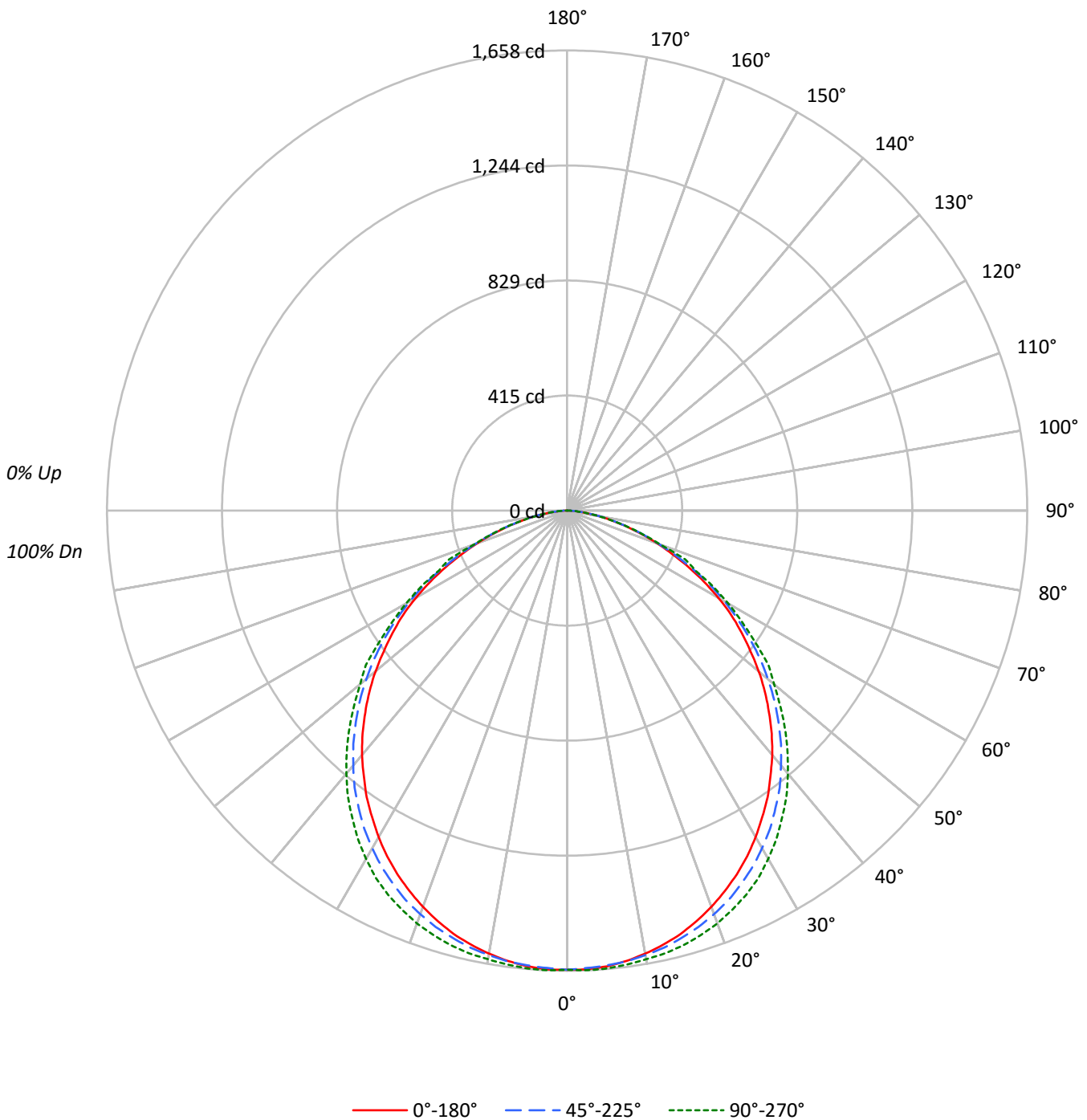
Input Watts (W): 32.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
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	48	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	28	38	32	27	37	32	27	26

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

	0°	45°	90°
0°	2226	2226	2226
5°	2226	2222	2237
10°	2215	2221	2243
15°	2200	2220	2258
20°	2175	2216	2266
25°	2147	2203	2267
30°	2110	2182	2251
35°	2069	2150	2218
40°	2019	2106	2173
45°	1957	2048	2112
50°	1887	1977	2036
55°	1800	1882	1939
60°	1697	1761	1804
65°	1541	1592	1622
70°	1353	1384	1403
75°	1142	1159	1167
80°	913	925	900
85°	614	639	614



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.8	3.5
10°-20°	450.9	10.2
20°-30°	684.1	15.4
30°-40°	816.8	18.4
40°-50°	826.9	18.6
50°-60°	714.7	16.1
60°-70°	495.4	11.2
70°-80°	239.7	5.4
80°-90°	52.7	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°	1291.8	29.1
0°-40°	2108.6	47.5
0°-60°	3650.2	82.3
0°-90°	4438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4438.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1648	1646	1645	1653	1656	156
15°	1580	1583	1594	1613	1621	445
25°	1446	1455	1484	1514	1527	666
35°	1260	1271	1309	1342	1350	787
45°	1029	1043	1076	1104	1110	793
55°	768	776	802	836	826	686
65°	484	489	500	508	510	479
75°	220	221	223	221	224	236
85°	40	43	41	40	40	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1654.5	1654.5	1654.5	1654.5	1654.5
2.5°	1654.5	1652.9	1649.7	1654.5	1657.6
5°	1648.1	1646.5	1644.9	1652.9	1656.0
7.5°	1636.9	1636.9	1638.5	1646.5	1649.7
10°	1621.0	1622.6	1625.8	1638.5	1641.7
12.5°	1601.9	1605.1	1613.1	1627.4	1633.8
15°	1579.6	1582.8	1593.9	1613.1	1621.0
17.5°	1551.0	1557.3	1573.2	1595.5	1603.5
20°	1519.1	1527.1	1547.8	1573.2	1582.8
22.5°	1484.1	1492.0	1519.1	1546.2	1555.7
25°	1445.9	1455.4	1484.1	1514.3	1527.1
27.5°	1404.5	1415.6	1447.4	1479.3	1492.0
30°	1358.3	1371.0	1404.5	1437.9	1449.0
32.5°	1308.9	1321.7	1359.9	1391.7	1402.9
35°	1259.6	1270.7	1308.9	1342.4	1350.3
37.5°	1203.8	1216.6	1258.0	1286.6	1297.8
40°	1149.7	1162.4	1199.0	1227.7	1237.3
42.5°	1090.8	1103.5	1140.1	1167.2	1175.2
45°	1028.7	1043.0	1076.4	1103.5	1109.9
47.5°	966.6	977.7	1012.7	1036.6	1041.4
50°	901.3	912.4	944.3	968.2	972.9
52.5°	832.8	850.3	875.8	893.3	914.0
55°	767.5	775.5	802.5	836.0	826.4
57.5°	702.2	707.0	729.3	743.6	746.8
60°	630.6	636.9	654.5	662.4	670.4
62.5°	555.7	560.5	581.2	589.2	592.4
65°	484.1	488.9	500.0	508.0	509.6
67.5°	410.8	415.6	425.2	431.5	460.2
70°	343.9	347.1	351.9	364.6	356.7
72.5°	280.3	281.8	286.6	286.6	288.2
75°	219.7	221.3	222.9	221.3	224.5
77.5°	164.0	167.2	168.8	167.2	165.6
80°	117.8	121.0	119.4	116.2	116.2
82.5°	76.4	78.0	76.4	74.8	74.8
85°	39.8	43.0	41.4	39.8	39.8
87.5°	14.3	15.9	17.5	19.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)