

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: P297066

Luminaire Tested: **D3X-WG-45L82765-LD5-UNV-24-T1-W2A-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297066  
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-45L82765-LD5-UNV-24-T1-W2A-2700K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3924.0 lumens  
Efficiency: N/A  
Efficacy: 124.6 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

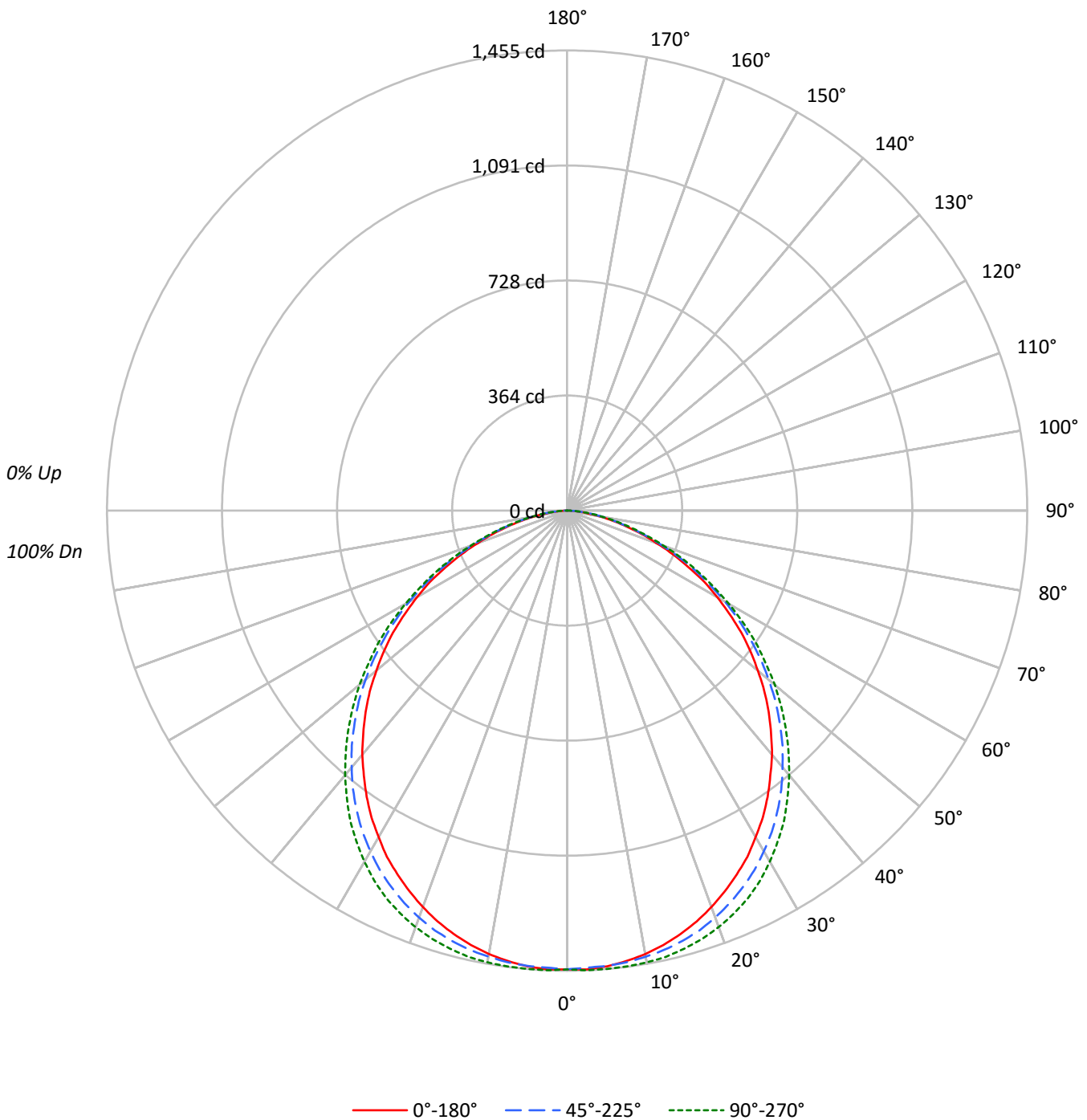
Input Watts (W): 31.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1952	1952	1952
5°	1954	1952	1965
10°	1945	1957	1982
15°	1931	1962	1997
20°	1910	1960	2007
25°	1884	1951	2007
30°	1852	1933	1992
35°	1815	1905	1965
40°	1770	1862	1918
45°	1714	1808	1862
50°	1648	1742	1795
55°	1576	1655	1708
60°	1475	1551	1589
65°	1347	1419	1454
70°	1183	1244	1277
75°	1001	1052	1089
80°	795	872	893
85°	542	651	630



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.8	3.5
10°-20°	397.9	10.1
20°-30°	604.7	15.4
30°-40°	721.6	18.4
40°-50°	728.8	18.6
50°-60°	627.9	16.0
60°-70°	437.7	11.2
70°-80°	216.9	5.5
80°-90°	50.6	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°	1140.5	29.1
0°-40°	1862.1	47.5
0°-60°	3218.8	82.0
0°-90°	3924.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3924.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1451	1451	1451	1451	1451	
5°	1446	1445	1445	1452	1455	137
15°	1386	1393	1408	1427	1434	391
25°	1269	1286	1314	1341	1352	585
35°	1105	1123	1160	1186	1196	691
45°	901	921	950	973	978	695
55°	672	686	706	722	728	599
65°	423	432	446	450	457	420
75°	193	195	202	207	209	208
85°	35	42	42	39	41	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1450.6	1450.6	1450.6	1450.6	1450.6
2.5°	1452.0	1449.2	1446.4	1452.0	1454.8
5°	1446.4	1445.0	1445.0	1452.0	1454.8
7.5°	1436.6	1436.6	1440.8	1450.6	1453.4
10°	1423.9	1426.7	1432.3	1446.4	1450.6
12.5°	1407.0	1412.7	1422.5	1439.4	1445.0
15°	1386.0	1393.0	1408.5	1426.7	1433.8
17.5°	1362.1	1371.9	1391.6	1412.7	1419.7
20°	1334.0	1346.6	1369.1	1393.0	1401.4
22.5°	1303.0	1318.5	1343.8	1369.1	1378.9
25°	1269.3	1286.2	1314.3	1341.0	1352.2
27.5°	1234.2	1251.0	1281.9	1308.7	1319.9
30°	1192.0	1211.7	1244.0	1272.1	1281.9
32.5°	1151.2	1170.9	1204.6	1229.9	1239.8
35°	1104.8	1123.1	1159.7	1186.4	1196.2
37.5°	1055.6	1076.7	1111.9	1135.8	1144.2
40°	1007.8	1026.1	1059.9	1083.7	1092.2
42.5°	954.4	974.1	1007.8	1028.9	1036.0
45°	901.0	920.7	950.2	972.7	978.3
47.5°	846.2	864.5	894.0	912.3	917.9
50°	787.2	804.0	832.1	850.4	857.4
52.5°	730.9	746.4	770.3	785.8	790.0
55°	671.9	686.0	705.6	722.5	728.1
57.5°	608.6	624.1	642.4	656.4	660.7
60°	548.2	560.9	576.3	589.0	590.4
62.5°	489.2	494.8	508.8	520.1	521.5
65°	423.1	431.5	445.6	449.8	456.8
67.5°	362.7	368.3	379.5	385.1	390.8
70°	300.8	305.0	316.3	323.3	324.7
72.5°	247.4	248.8	257.2	262.9	264.3
75°	192.6	195.4	202.4	206.6	209.4
77.5°	146.2	149.0	154.6	157.4	157.4
80°	102.6	106.8	112.5	113.9	115.3
82.5°	66.1	71.7	75.9	77.3	74.5
85°	35.1	42.2	42.2	39.4	40.8
87.5°	12.7	15.5	16.9	18.3	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)