

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: P297069

Luminaire Tested: **D3X-WG-45L82765-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297069  
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-4000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4268.0 lumens  
Efficiency: N/A  
Efficacy: 133.8 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

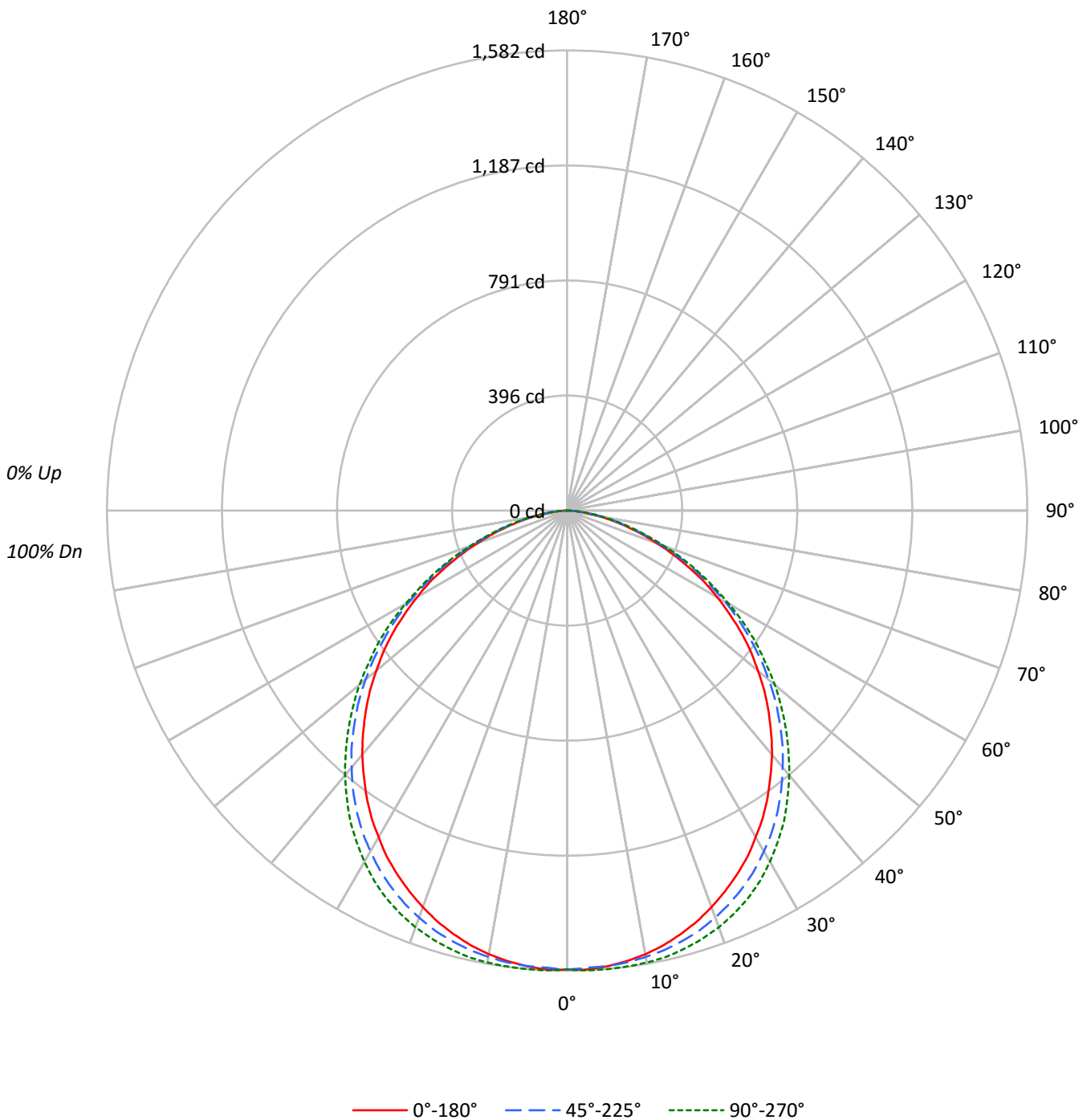
Input Watts (W): 31.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P297069

CATALOG NUMBER: D3X-WG-45L82765-LD5-UNV-24-T1-W2A-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P297069

CATALOG NUMBER: D3X-WG-45L82765-LD5-UNV-24-T1-W2A-4000K

**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°	2123	2123	2123
5°	2125	2123	2137
10°	2116	2128	2156
15°	2100	2134	2172
20°	2077	2132	2183
25°	2050	2122	2184
30°	2014	2102	2166
35°	1974	2072	2137
40°	1925	2025	2086
45°	1865	1967	2025
50°	1792	1895	1952
55°	1714	1800	1858
60°	1605	1687	1728
65°	1465	1543	1582
70°	1287	1353	1389
75°	1089	1145	1184
80°	865	948	972
85°	590	709	684



TEST NUMBER: P297069

CATALOG NUMBER: D3X-WG-45L82765-LD5-UNV-24-T1-W2A-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.9	3.5
10°-20°	432.8	10.1
20°-30°	657.7	15.4
30°-40°	784.9	18.4
40°-50°	792.7	18.6
50°-60°	682.9	16.0
60°-70°	476.1	11.2
70°-80°	235.9	5.5
80°-90°	55.0	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°	1240.5	29.1
0°-40°	2025.3	47.5
0°-60°	3501.0	82.0
0°-90°	4268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4268.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1578	1578	1578	1578	1578	
5°	1573	1572	1572	1579	1582	149
15°	1508	1515	1532	1552	1559	425
25°	1381	1399	1430	1458	1471	636
35°	1202	1222	1261	1290	1301	751
45°	980	1001	1034	1058	1064	755
55°	731	746	768	786	792	651
65°	460	469	485	489	497	457
75°	210	212	220	225	228	226
85°	38	46	46	43	44	49
90°	0	0	0	0	0	



TEST NUMBER: P297069

CATALOG NUMBER: D3X-WG-45L82765-LD5-UNV-24-T1-W2A-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1577.8	1577.8	1577.8	1577.8	1577.8
2.5°	1579.3	1576.3	1573.2	1579.3	1582.4
5°	1573.2	1571.7	1571.7	1579.3	1582.4
7.5°	1562.5	1562.5	1567.1	1577.8	1580.8
10°	1548.7	1551.8	1557.9	1573.2	1577.8
12.5°	1530.4	1536.5	1547.2	1565.6	1571.7
15°	1507.5	1515.1	1531.9	1551.8	1559.4
17.5°	1481.5	1492.2	1513.6	1536.5	1544.2
20°	1450.9	1464.7	1489.1	1515.1	1524.3
22.5°	1417.3	1434.1	1461.6	1489.1	1499.8
25°	1380.6	1398.9	1429.5	1458.5	1470.8
27.5°	1342.3	1360.7	1394.3	1423.4	1435.6
30°	1296.5	1317.9	1353.0	1383.6	1394.3
32.5°	1252.1	1273.5	1310.2	1337.8	1348.5
35°	1201.7	1221.6	1261.3	1290.4	1301.1
37.5°	1148.2	1171.1	1209.3	1235.3	1244.5
40°	1096.2	1116.1	1152.8	1178.8	1187.9
42.5°	1038.1	1059.5	1096.2	1119.1	1126.8
45°	980.0	1001.4	1033.5	1058.0	1064.1
47.5°	920.4	940.3	972.4	992.2	998.3
50°	856.2	874.5	905.1	925.0	932.6
52.5°	795.0	811.8	837.8	854.6	859.2
55°	730.8	746.1	767.5	785.8	792.0
57.5°	662.0	678.8	698.7	714.0	718.6
60°	596.3	610.0	626.8	640.6	642.1
62.5°	532.0	538.2	553.4	565.7	567.2
65°	460.2	469.4	484.7	489.2	496.9
67.5°	394.4	400.6	412.8	418.9	425.0
70°	327.2	331.8	344.0	351.6	353.2
72.5°	269.1	270.6	279.8	285.9	287.4
75°	209.5	212.5	220.2	224.7	227.8
77.5°	159.0	162.1	168.2	171.2	171.2
80°	111.6	116.2	122.3	123.8	125.4
82.5°	71.9	78.0	82.6	84.1	81.0
85°	38.2	45.9	45.9	42.8	44.3
87.5°	13.8	16.8	18.3	19.9	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)