

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: P297068

Luminaire Tested: **D3X-WG-45L82765-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297068
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-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4176.0 lumens
Efficiency: N/A
Efficacy: 131.7 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

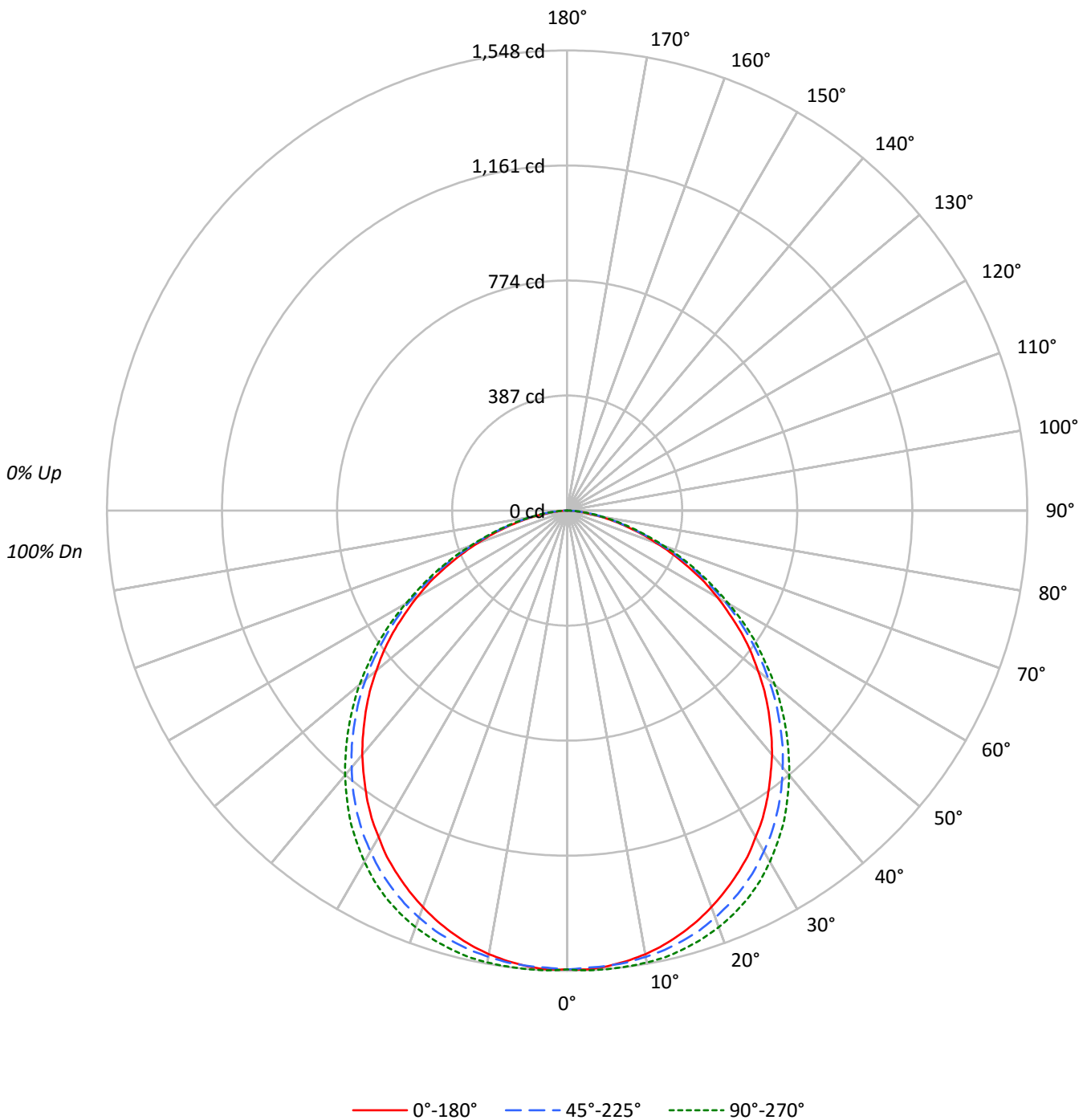
Input Watts (W): 31.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P297068

CATALOG NUMBER: D3X-WG-45L82765-LD5-UNV-24-T1-W2A-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P297068

CATALOG NUMBER: D3X-WG-45L82765-LD5-UNV-24-T1-W2A-3500K

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°	2077	2077	2077
5°	2079	2077	2091
10°	2070	2083	2109
15°	2055	2088	2125
20°	2033	2086	2135
25°	2005	2076	2136
30°	1971	2057	2120
35°	1931	2027	2091
40°	1884	1981	2041
45°	1825	1924	1981
50°	1753	1854	1910
55°	1677	1761	1818
60°	1570	1650	1691
65°	1434	1510	1548
70°	1259	1324	1360
75°	1065	1120	1159
80°	846	927	951
85°	577	693	670



TEST NUMBER: P297068

CATALOG NUMBER: D3X-WG-45L82765-LD5-UNV-24-T1-W2A-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.7	3.5
10°-20°	423.5	10.1
20°-30°	643.6	15.4
30°-40°	767.9	18.4
40°-50°	775.6	18.6
50°-60°	668.2	16.0
60°-70°	465.8	11.2
70°-80°	230.9	5.5
80°-90°	53.8	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°	1213.7	29.1
0°-40°	1981.7	47.5
0°-60°	3425.5	82.0
0°-90°	4176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4176.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1539	1538	1538	1545	1548	146
15°	1475	1482	1499	1518	1526	416
25°	1351	1369	1399	1427	1439	622
35°	1176	1195	1234	1262	1273	735
45°	959	980	1011	1035	1041	739
55°	715	730	751	769	775	637
65°	450	459	474	479	486	447
75°	205	208	215	220	223	221
85°	37	45	45	42	43	48
90°	0	0	0	0	0	



TEST NUMBER: P297068

CATALOG NUMBER: D3X-WG-45L82765-LD5-UNV-24-T1-W2A-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1543.8	1543.8	1543.8	1543.8	1543.8
2.5°	1545.3	1542.3	1539.3	1545.3	1548.3
5°	1539.3	1537.8	1537.8	1545.3	1548.3
7.5°	1528.8	1528.8	1533.3	1543.8	1546.8
10°	1515.4	1518.3	1524.3	1539.3	1543.8
12.5°	1497.4	1503.4	1513.9	1531.8	1537.8
15°	1475.0	1482.4	1498.9	1518.3	1525.8
17.5°	1449.5	1460.0	1481.0	1503.4	1510.9
20°	1419.6	1433.1	1457.0	1482.4	1491.4
22.5°	1386.7	1403.2	1430.1	1457.0	1467.5
25°	1350.8	1368.8	1398.7	1427.1	1439.1
27.5°	1313.4	1331.4	1364.3	1392.7	1404.7
30°	1268.5	1289.5	1323.9	1353.8	1364.3
32.5°	1225.2	1246.1	1282.0	1308.9	1319.4
35°	1175.8	1195.2	1234.1	1262.5	1273.0
37.5°	1123.4	1145.9	1183.3	1208.7	1217.7
40°	1072.6	1092.0	1127.9	1153.3	1162.3
42.5°	1015.7	1036.7	1072.6	1095.0	1102.5
45°	958.9	979.8	1011.2	1035.2	1041.2
47.5°	900.5	920.0	951.4	970.8	976.8
50°	837.7	855.7	885.6	905.0	912.5
52.5°	777.9	794.3	819.8	836.2	840.7
55°	715.0	730.0	750.9	768.9	774.9
57.5°	647.7	664.2	683.6	698.6	703.1
60°	583.4	596.9	613.3	626.8	628.3
62.5°	520.6	526.6	541.5	553.5	555.0
65°	450.3	459.2	474.2	478.7	486.2
67.5°	385.9	391.9	403.9	409.9	415.9
70°	320.1	324.6	336.6	344.1	345.6
72.5°	263.3	264.8	273.8	279.7	281.2
75°	204.9	207.9	215.4	219.9	222.9
77.5°	155.6	158.6	164.6	167.5	167.5
80°	109.2	113.7	119.7	121.2	122.7
82.5°	70.3	76.3	80.8	82.3	79.3
85°	37.4	44.9	44.9	41.9	43.4
87.5°	13.5	16.5	18.0	19.4	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)