

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: P297341

Luminaire Tested: **D3X-WO-42L82765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297341
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-42L82765-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: 4281.0 lumens
Efficiency: N/A
Efficacy: 144.1 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

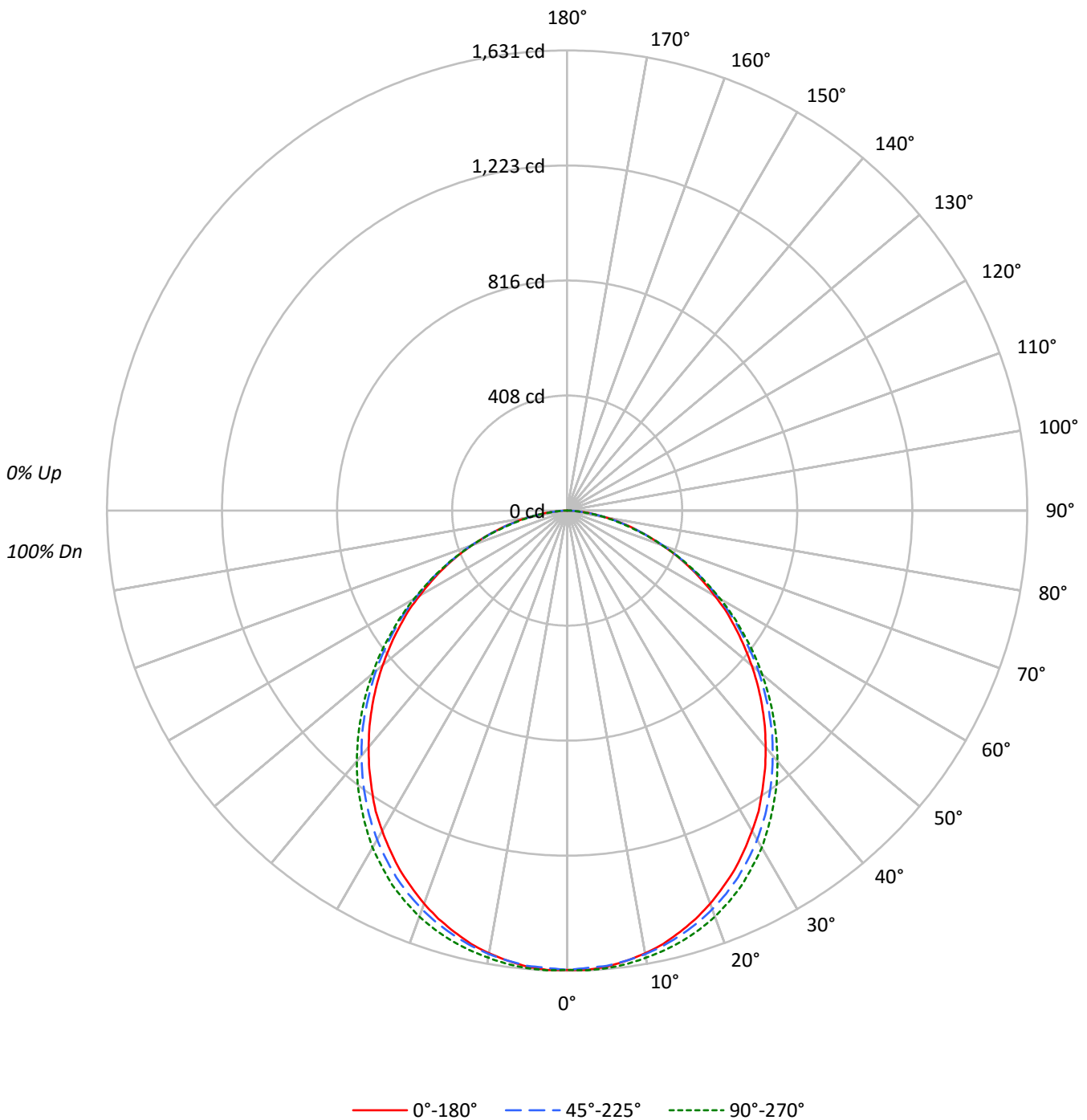
Input Watts (W): 29.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2191	2191	2191
5°	2191	2187	2199
10°	2177	2181	2199
15°	2153	2170	2200
20°	2123	2154	2193
25°	2085	2128	2175
30°	2037	2093	2144
35°	1983	2047	2094
40°	1923	1991	2037
45°	1858	1926	1968
50°	1787	1854	1887
55°	1712	1766	1793
60°	1626	1669	1688
65°	1534	1557	1566
70°	1407	1424	1407
75°	1267	1260	1222
80°	1072	1062	1028
85°	801	780	690



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	3.6
10°-20°	440.4	10.3
20°-30°	660.3	15.4
30°-40°	777.5	18.2
40°-50°	777.7	18.2
50°-60°	671.0	15.7
60°-70°	482.8	11.3
70°-80°	256.1	6.0
80°-90°	61.1	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°	1254.8	29.3
0°-40°	2032.3	47.5
0°-60°	3481.0	81.3
0°-90°	4281.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4281.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1628	1628	1628	1628	1628	
5°	1622	1621	1620	1625	1628	154
15°	1546	1550	1558	1573	1579	436
25°	1405	1413	1434	1458	1465	646
35°	1207	1222	1246	1268	1275	755
45°	976	989	1012	1030	1034	753
55°	730	737	753	766	764	653
65°	482	483	489	492	492	476
75°	244	241	242	236	235	259
85°	52	52	50	46	45	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1628.1	1628.1	1628.1	1628.1	1628.1
2.5°	1629.6	1626.7	1622.4	1628.1	1631.0
5°	1622.4	1620.9	1619.5	1625.3	1628.1
7.5°	1609.4	1610.8	1609.4	1618.0	1620.9
10°	1593.5	1595.0	1596.4	1606.5	1609.4
12.5°	1573.3	1574.8	1579.1	1592.1	1596.4
15°	1545.9	1550.3	1557.5	1573.3	1579.1
17.5°	1517.1	1522.9	1533.0	1551.7	1557.5
20°	1482.5	1489.7	1504.1	1524.3	1531.5
22.5°	1443.6	1450.8	1471.0	1492.6	1499.8
25°	1404.6	1413.3	1433.5	1458.0	1465.2
27.5°	1358.5	1370.0	1391.6	1416.2	1421.9
30°	1310.9	1321.0	1346.9	1370.0	1380.1
32.5°	1263.3	1273.4	1297.9	1321.0	1328.2
35°	1207.0	1221.5	1246.0	1267.6	1274.8
37.5°	1152.2	1165.2	1191.2	1212.8	1220.0
40°	1094.6	1106.1	1133.5	1153.7	1159.5
42.5°	1036.9	1048.4	1075.8	1091.7	1097.4
45°	976.3	989.3	1012.4	1029.7	1034.0
47.5°	915.7	925.8	947.5	963.3	969.1
50°	853.7	863.8	885.5	898.4	901.3
52.5°	791.7	798.9	819.1	830.7	835.0
55°	729.7	736.9	752.8	765.8	764.3
57.5°	670.6	673.5	689.3	698.0	698.0
60°	604.2	607.1	620.1	625.9	627.3
62.5°	542.2	546.6	556.7	558.1	558.1
65°	481.7	483.1	488.9	491.8	491.8
67.5°	421.1	419.7	425.4	425.4	424.0
70°	357.6	360.5	362.0	359.1	357.6
72.5°	300.0	298.5	298.5	297.1	297.1
75°	243.7	240.8	242.3	236.5	235.1
77.5°	191.8	187.5	186.0	183.1	180.3
80°	138.4	138.4	137.0	134.1	132.7
82.5°	92.3	92.3	90.9	88.0	85.1
85°	51.9	51.9	50.5	46.1	44.7
87.5°	17.3	17.3	17.3	17.3	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)