

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: P298384

Luminaire Tested: **D3X-WO-44L82765-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-44L82765-LD5-UNV-22-T1-W2A-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4454.0 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

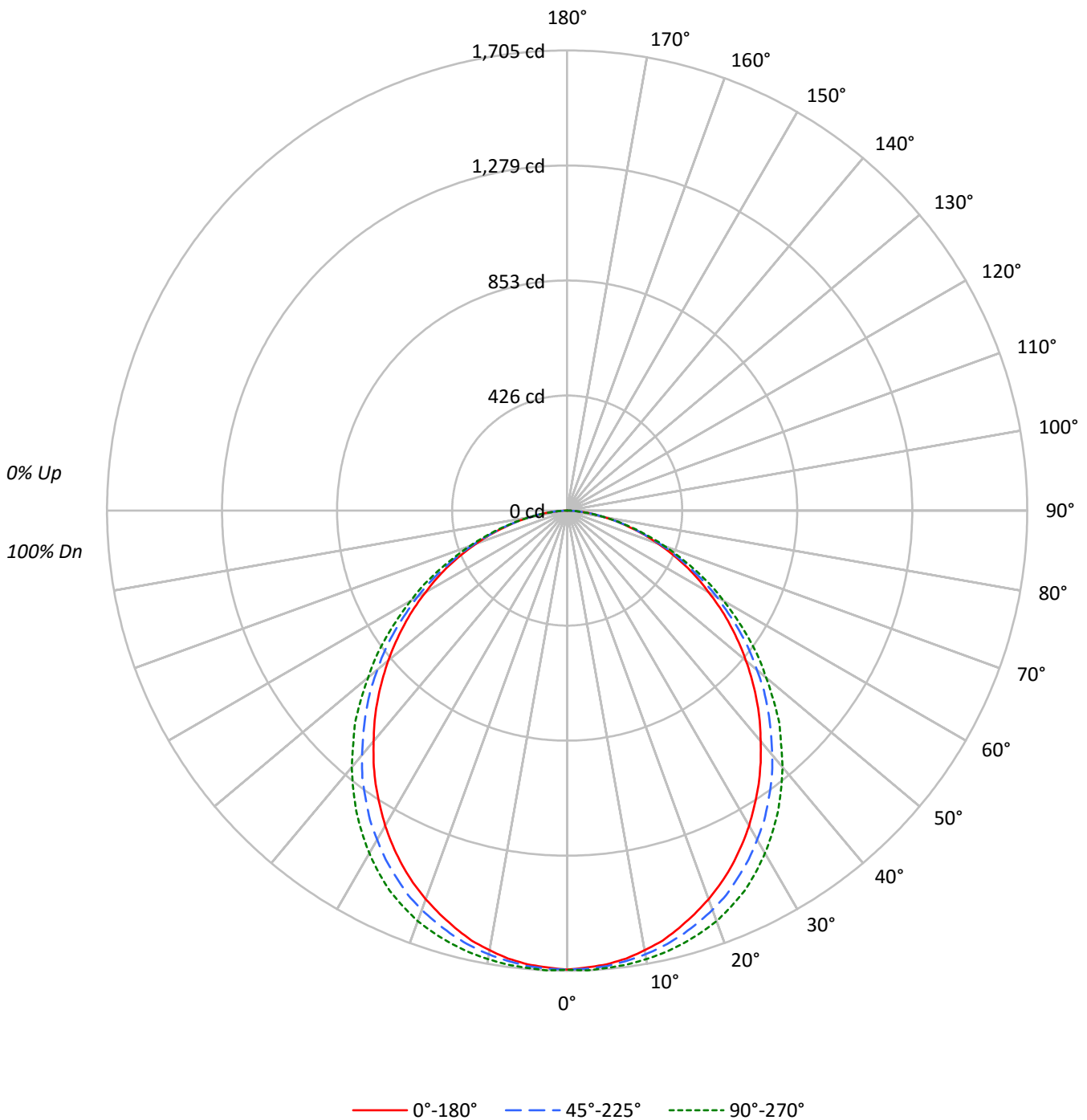
Input Watts (W): 36.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	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	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4577	4577	4577
5°	4559	4577	4595
10°	4521	4563	4611
15°	4461	4541	4627
20°	4388	4509	4636
25°	4300	4451	4616
30°	4190	4376	4555
35°	4065	4277	4473
40°	3919	4152	4363
45°	3781	4009	4228
50°	3621	3844	4029
55°	3454	3662	3839
60°	3258	3449	3604
65°	3078	3191	3347
70°	2827	2913	3019
75°	2513	2583	2651
80°	2165	2131	2131
85°	1643	1507	1371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.9	3.6
10°-20°	459.9	10.3
20°-30°	690.5	15.5
30°-40°	812.7	18.2
40°-50°	810.6	18.2
50°-60°	695.6	15.6
60°-70°	498.2	11.2
70°-80°	263.8	5.9
80°-90°	61.7	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°	1311.3	29.4
0°-40°	2124.0	47.7
0°-60°	3630.3	81.5
0°-90°	4454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1701	1701	1701	1701	1701	
5°	1688	1688	1694	1699	1701	160
15°	1601	1608	1630	1652	1661	451
25°	1448	1461	1499	1537	1555	666
35°	1238	1253	1302	1346	1362	773
45°	994	1009	1053	1091	1111	766
55°	736	747	781	807	818	658
65°	483	486	501	521	526	477
75°	242	242	248	253	255	259
85°	53	51	49	44	44	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1700.9	1700.9	1700.9	1700.9	1700.9
2.5°	1694.3	1694.3	1698.7	1703.2	1705.4
5°	1687.6	1687.6	1694.3	1698.7	1700.9
7.5°	1674.3	1674.3	1683.2	1692.1	1696.5
10°	1654.4	1658.8	1669.9	1683.2	1687.6
12.5°	1632.2	1636.6	1652.2	1669.9	1676.5
15°	1601.1	1607.8	1630.0	1652.2	1661.0
17.5°	1567.9	1576.8	1603.4	1630.0	1641.1
20°	1532.4	1541.3	1574.5	1605.6	1618.9
22.5°	1492.5	1503.6	1541.3	1574.5	1587.8
25°	1448.1	1461.4	1499.1	1536.8	1554.6
27.5°	1399.3	1414.9	1457.0	1496.9	1512.4
30°	1348.3	1366.1	1408.2	1450.3	1465.9
32.5°	1292.9	1308.4	1359.4	1399.3	1414.9
35°	1237.5	1253.0	1301.8	1346.1	1361.6
37.5°	1177.6	1197.5	1246.3	1286.2	1301.8
40°	1115.5	1135.4	1182.0	1228.6	1241.9
42.5°	1055.6	1073.3	1117.7	1159.8	1173.1
45°	993.5	1009.0	1053.4	1091.1	1111.0
47.5°	929.2	944.7	989.1	1024.6	1035.6
50°	864.9	880.4	918.1	949.2	962.5
52.5°	800.6	816.1	851.6	880.4	893.7
55°	736.3	747.4	780.6	807.2	818.3
57.5°	671.9	680.8	707.4	736.3	742.9
60°	605.4	616.5	640.9	660.9	669.7
62.5°	545.5	550.0	572.2	589.9	601.0
65°	483.4	485.7	501.2	521.1	525.6
67.5°	419.1	421.4	436.9	448.0	452.4
70°	359.3	359.3	370.3	379.2	383.7
72.5°	301.6	299.4	306.0	314.9	319.3
75°	241.7	241.7	248.4	252.8	255.0
77.5°	190.7	186.3	190.7	195.2	195.2
80°	139.7	137.5	137.5	139.7	137.5
82.5°	95.4	93.1	95.4	90.9	88.7
85°	53.2	51.0	48.8	44.4	44.4
87.5°	17.7	15.5	15.5	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)