

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: P297616

Luminaire Tested: **D3X-WD-40L82765-LD5-UNV-14-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-40L82765-LD5-UNV-14-T1-W2A-5500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4006.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

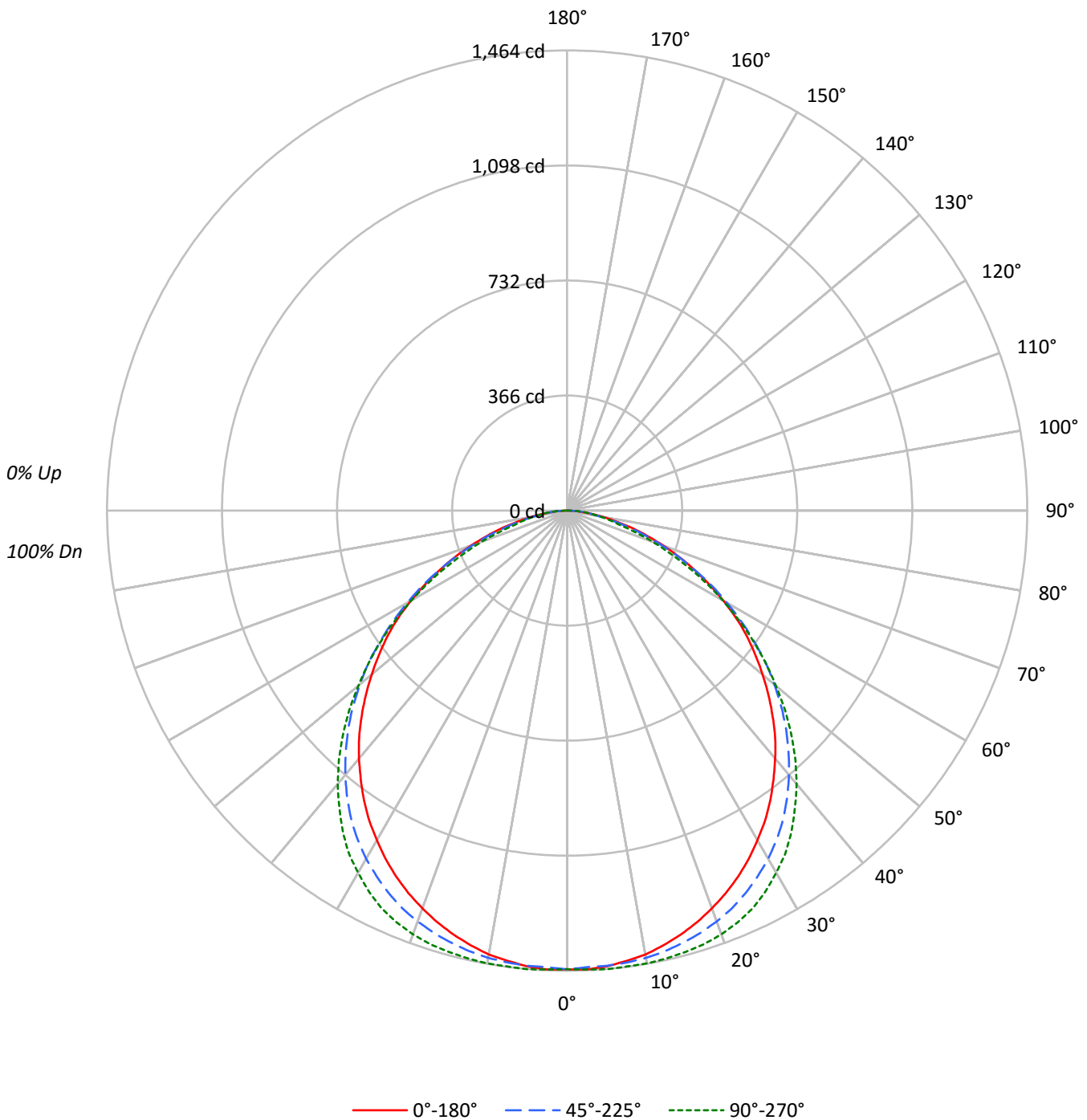
Input Watts (W): 40.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	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	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	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	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3927	3927	3927
5°	3932	3927	3956
10°	3919	3948	3997
15°	3891	3965	4050
20°	3856	3984	4107
25°	3817	3987	4147
30°	3762	3973	4134
35°	3701	3936	4089
40°	3618	3857	3989
45°	3518	3750	3838
50°	3399	3601	3631
55°	3280	3406	3389
60°	3089	3157	3080
65°	2846	2858	2699
70°	2547	2490	2265
75°	2213	2064	1748
80°	1773	1607	1607
85°	1269	1491	1547



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.8	3.5
10°-20°	402.8	10.1
20°-30°	618.5	15.4
30°-40°	744.9	18.6
40°-50°	752.7	18.8
50°-60°	642.0	16.0
60°-70°	439.5	11.0
70°-80°	212.1	5.3
80°-90°	54.7	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°	1160.1	29.0
0°-40°	1904.9	47.6
0°-60°	3299.7	82.4
0°-90°	4006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4006.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1459	1459	1459	1459	1459	
5°	1456	1456	1454	1463	1464	138
15°	1397	1407	1423	1448	1454	394
25°	1286	1305	1343	1382	1397	592
35°	1127	1152	1198	1236	1245	704
45°	924	950	985	1008	1008	713
55°	699	712	726	730	722	623
65°	447	452	449	433	424	443
75°	213	213	198	175	168	226
85°	41	45	48	50	50	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1459.2	1459.2	1459.2	1459.2	1459.2
2.5°	1461.0	1459.2	1453.8	1461.0	1461.0
5°	1455.6	1455.6	1453.8	1462.7	1464.5
7.5°	1444.9	1448.4	1450.2	1461.0	1462.7
10°	1434.1	1437.7	1444.9	1459.2	1462.7
12.5°	1416.3	1423.4	1435.9	1455.6	1459.2
15°	1396.6	1407.3	1423.4	1448.4	1453.8
17.5°	1373.3	1387.6	1409.1	1437.7	1446.7
20°	1346.5	1362.6	1391.2	1423.4	1434.1
22.5°	1317.9	1335.8	1369.8	1407.3	1418.0
25°	1285.7	1305.4	1342.9	1382.3	1396.6
27.5°	1250.0	1271.4	1312.5	1353.7	1366.2
30°	1210.6	1233.9	1278.6	1319.7	1330.4
32.5°	1171.3	1194.5	1241.0	1280.4	1292.9
35°	1126.6	1151.6	1198.1	1235.6	1244.6
37.5°	1078.3	1103.3	1149.8	1187.4	1190.9
40°	1030.0	1055.0	1098.0	1131.9	1135.5
42.5°	979.9	1003.2	1042.5	1071.1	1074.7
45°	924.5	949.5	985.3	1008.5	1008.5
47.5°	869.1	894.1	924.5	940.6	940.6
50°	811.8	835.1	860.1	869.1	867.3
52.5°	754.6	776.1	797.5	799.3	795.7
55°	699.2	711.7	726.0	729.6	722.4
57.5°	638.4	649.1	658.1	652.7	647.3
60°	574.0	584.7	586.5	577.6	572.2
62.5°	511.4	520.4	520.4	506.1	497.1
65°	447.0	452.4	448.8	432.7	423.8
67.5°	386.3	389.8	382.7	366.6	352.3
70°	323.7	325.5	316.5	296.8	287.9
72.5°	266.4	268.2	257.5	234.3	223.5
75°	212.8	212.8	198.5	175.2	168.1
77.5°	159.1	164.5	148.4	135.9	135.9
80°	114.4	119.8	103.7	105.5	103.7
82.5°	75.1	80.5	75.1	75.1	75.1
85°	41.1	44.7	48.3	50.1	50.1
87.5°	12.5	21.5	23.2	25.0	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)