

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: P297618

Luminaire Tested: **D3X-WD-40L82765-LD5-UNV-14-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297618
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-6500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4027.0 lumens
Efficiency: N/A
Efficacy: 97.7 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

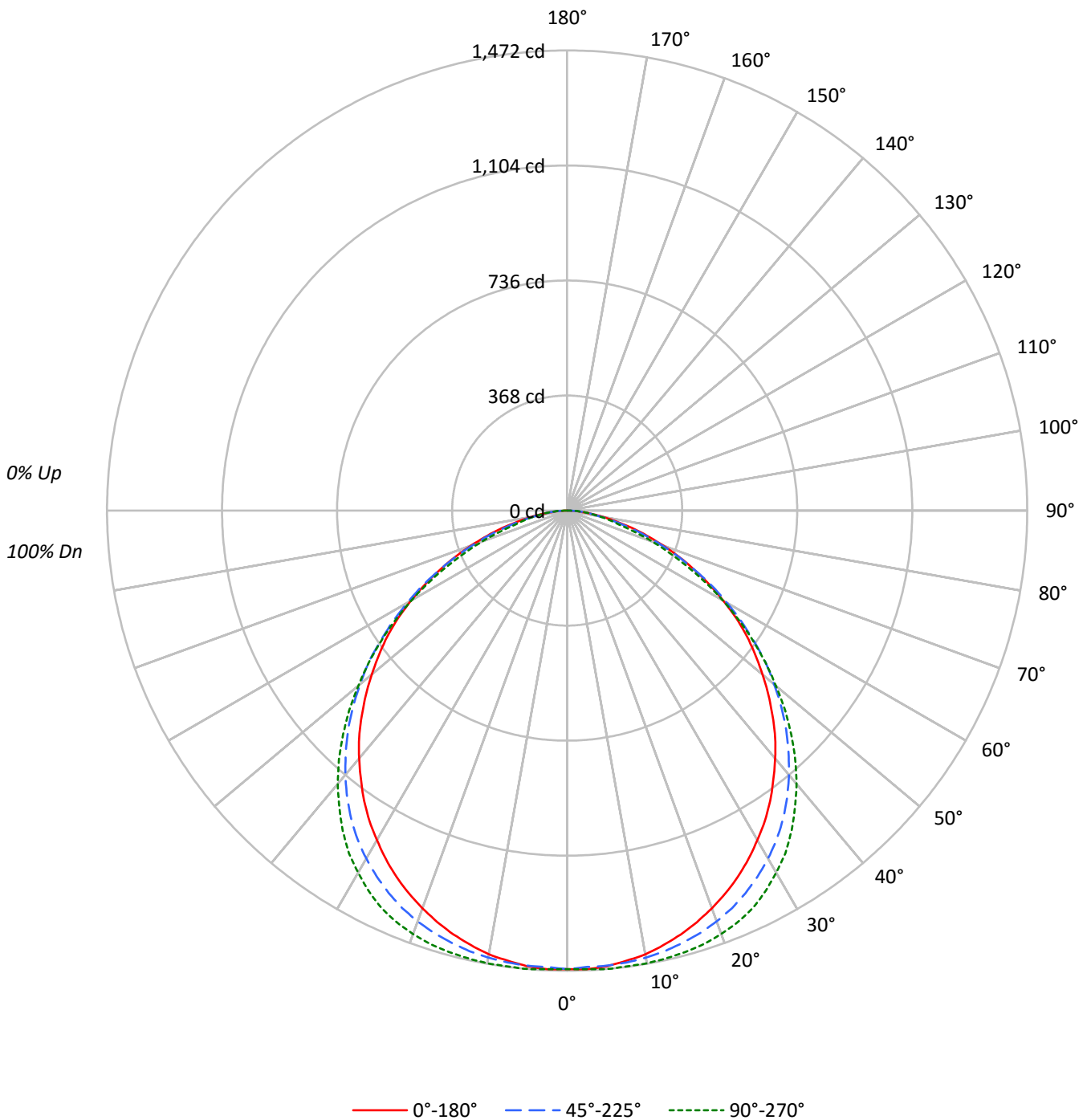
Input Watts (W): 41.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3947	3947	3947
5°	3952	3948	3977
10°	3939	3969	4018
15°	3911	3986	4071
20°	3876	4005	4129
25°	3838	4008	4168
30°	3782	3994	4156
35°	3720	3957	4110
40°	3637	3877	4010
45°	3537	3769	3858
50°	3417	3620	3650
55°	3298	3424	3407
60°	3105	3173	3096
65°	2862	2873	2713
70°	2560	2504	2277
75°	2224	2074	1757
80°	1782	1616	1616
85°	1275	1497	1553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.5	3.5
10°-20°	404.9	10.1
20°-30°	621.7	15.4
30°-40°	748.8	18.6
40°-50°	756.7	18.8
50°-60°	645.4	16.0
60°-70°	441.8	11.0
70°-80°	213.2	5.3
80°-90°	55.0	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°	1166.1	29.0
0°-40°	1914.9	47.6
0°-60°	3317.0	82.4
0°-90°	4027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4027.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1467	1467	1467	1467	1467	
5°	1463	1463	1461	1470	1472	139
15°	1404	1415	1431	1456	1461	396
25°	1292	1312	1350	1390	1404	595
35°	1132	1158	1204	1242	1251	708
45°	929	954	990	1014	1014	717
55°	703	715	730	733	726	626
65°	449	455	451	435	426	446
75°	214	214	200	176	169	227
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°	1466.8	1466.8	1466.8	1466.8	1466.8
2.5°	1468.6	1466.8	1461.4	1468.6	1468.6
5°	1463.2	1463.2	1461.4	1470.4	1472.2
7.5°	1452.4	1456.0	1457.8	1468.6	1470.4
10°	1441.7	1445.2	1452.4	1466.8	1470.4
12.5°	1423.7	1430.9	1443.5	1463.2	1466.8
15°	1403.9	1414.7	1430.9	1456.0	1461.4
17.5°	1380.5	1394.9	1416.5	1445.2	1454.2
20°	1353.6	1369.8	1398.5	1430.9	1441.7
22.5°	1324.8	1342.8	1376.9	1414.7	1425.5
25°	1292.5	1312.2	1350.0	1389.5	1403.9
27.5°	1256.5	1278.1	1319.4	1360.8	1373.3
30°	1217.0	1240.3	1285.3	1326.6	1337.4
32.5°	1177.4	1200.8	1247.5	1287.1	1299.6
35°	1132.5	1157.6	1204.4	1242.1	1251.1
37.5°	1083.9	1109.1	1155.8	1193.6	1197.2
40°	1035.4	1060.6	1103.7	1137.9	1141.5
42.5°	985.1	1008.4	1048.0	1076.7	1080.3
45°	929.3	954.5	990.5	1013.8	1013.8
47.5°	873.6	898.8	929.3	945.5	945.5
50°	816.1	839.5	864.6	873.6	871.8
52.5°	758.6	780.1	801.7	803.5	799.9
55°	702.9	715.4	729.8	733.4	726.2
57.5°	641.7	652.5	661.5	656.1	650.7
60°	577.0	587.8	589.6	580.6	575.2
62.5°	514.1	523.1	523.1	508.7	499.7
65°	449.4	454.8	451.2	435.0	426.0
67.5°	388.3	391.9	384.7	368.5	354.1
70°	325.4	327.2	318.2	298.4	289.4
72.5°	267.8	269.6	258.9	235.5	224.7
75°	213.9	213.9	199.5	176.2	169.0
77.5°	160.0	165.4	149.2	136.6	136.6
80°	115.0	120.4	104.3	106.1	104.3
82.5°	75.5	80.9	75.5	75.5	75.5
85°	41.3	44.9	48.5	50.3	50.3
87.5°	12.6	21.6	23.4	25.2	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)