

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: P297610

Luminaire Tested: **D3X-WD-40L82765-LD5-UNV-14-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297610
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-2700K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3535.0 lumens
Efficiency: N/A
Efficacy: 89.7 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

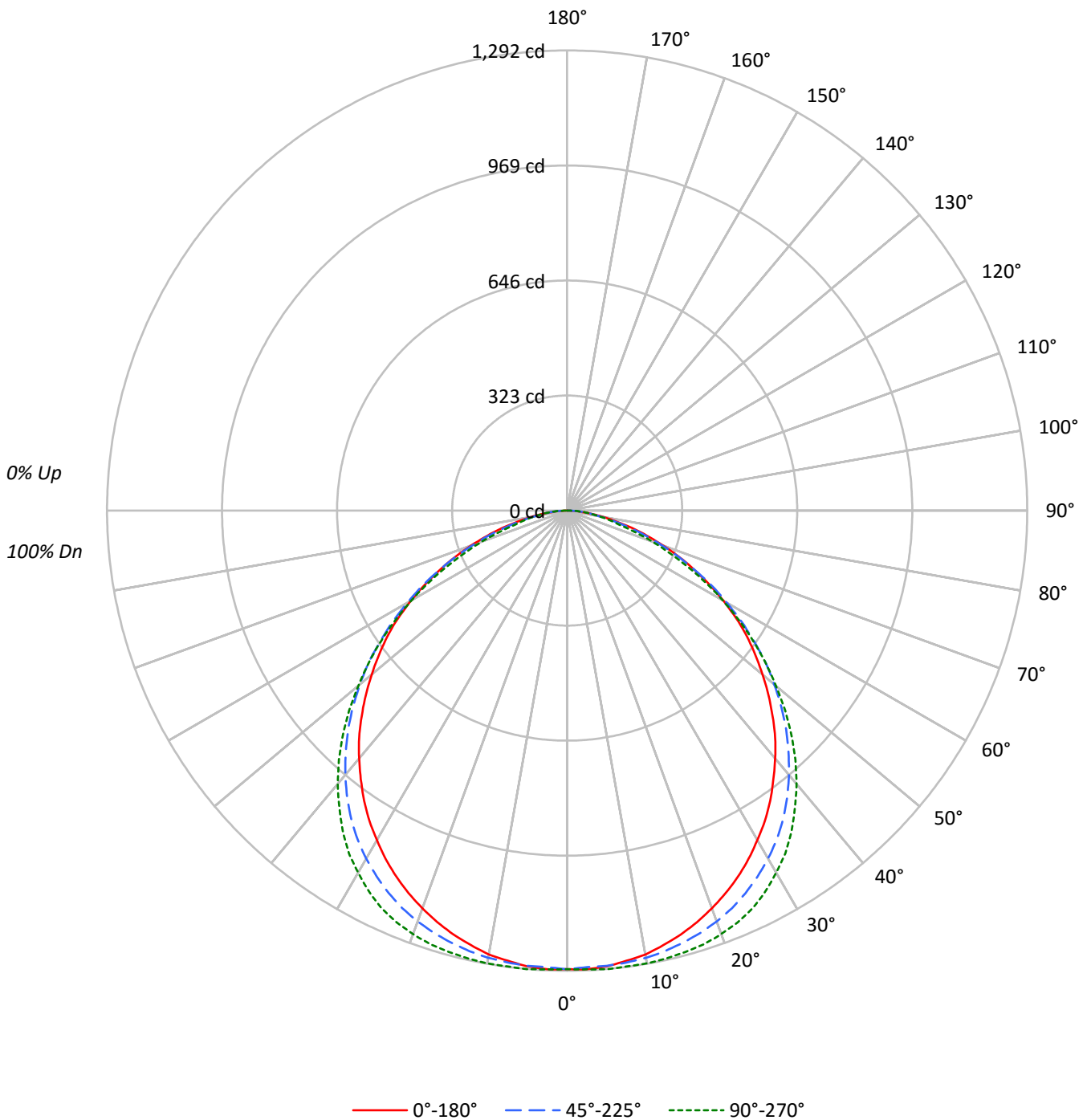
Input Watts (W): 39.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3465	3465	3465
5°	3470	3465	3491
10°	3458	3484	3527
15°	3433	3499	3574
20°	3403	3515	3624
25°	3369	3518	3659
30°	3320	3506	3648
35°	3266	3473	3608
40°	3193	3404	3520
45°	3105	3309	3387
50°	2999	3177	3204
55°	2895	3005	2991
60°	2726	2786	2717
65°	2512	2522	2381
70°	2247	2198	1999
75°	1953	1822	1542
80°	1565	1418	1418
85°	1121	1315	1365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	3.5
10°-20°	355.4	10.1
20°-30°	545.7	15.4
30°-40°	657.3	18.6
40°-50°	664.2	18.8
50°-60°	566.6	16.0
60°-70°	387.9	11.0
70°-80°	187.2	5.3
80°-90°	48.2	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°	1023.7	29.0
0°-40°	1681.0	47.6
0°-60°	2911.8	82.4
0°-90°	3535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3535.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1288	1288	1288	1288	1288	
5°	1284	1284	1283	1291	1292	122
15°	1232	1242	1256	1278	1283	348
25°	1134	1152	1185	1220	1232	522
35°	994	1016	1057	1090	1098	621
45°	816	838	870	890	890	629
55°	617	628	641	644	638	549
65°	394	399	396	382	374	391
75°	188	188	175	155	148	199
85°	36	39	43	44	44	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1287.6	1287.6	1287.6	1287.6	1287.6
2.5°	1289.2	1287.6	1282.9	1289.2	1289.2
5°	1284.5	1284.5	1282.9	1290.8	1292.3
7.5°	1275.0	1278.1	1279.7	1289.2	1290.8
10°	1265.5	1268.7	1275.0	1287.6	1290.8
12.5°	1249.7	1256.1	1267.1	1284.5	1287.6
15°	1232.4	1241.9	1256.1	1278.1	1282.9
17.5°	1211.9	1224.5	1243.4	1268.7	1276.6
20°	1188.2	1202.4	1227.6	1256.1	1265.5
22.5°	1163.0	1178.7	1208.7	1241.9	1251.3
25°	1134.5	1151.9	1185.0	1219.8	1232.4
27.5°	1103.0	1121.9	1158.2	1194.5	1205.6
30°	1068.3	1088.8	1128.2	1164.5	1174.0
32.5°	1033.6	1054.1	1095.1	1129.8	1140.9
35°	994.1	1016.2	1057.2	1090.4	1098.3
37.5°	951.5	973.6	1014.6	1047.8	1050.9
40°	908.9	931.0	968.9	998.8	1002.0
42.5°	864.7	885.2	919.9	945.2	948.4
45°	815.8	837.9	869.5	890.0	890.0
47.5°	766.9	789.0	815.8	830.0	830.0
50°	716.4	736.9	759.0	766.9	765.3
52.5°	665.9	684.8	703.8	705.3	702.2
55°	617.0	628.0	640.6	643.8	637.5
57.5°	563.3	572.8	580.7	576.0	571.2
60°	506.5	516.0	517.6	509.7	504.9
62.5°	451.3	459.2	459.2	446.6	438.7
65°	394.5	399.2	396.1	381.9	374.0
67.5°	340.8	344.0	337.7	323.5	310.9
70°	285.6	287.2	279.3	261.9	254.1
72.5°	235.1	236.7	227.2	206.7	197.2
75°	187.8	187.8	175.2	154.6	148.3
77.5°	140.4	145.2	131.0	119.9	119.9
80°	101.0	105.7	91.5	93.1	91.5
82.5°	66.3	71.0	66.3	66.3	66.3
85°	36.3	39.4	42.6	44.2	44.2
87.5°	11.0	18.9	20.5	22.1	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)