

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: P297615

Luminaire Tested: **D3X-WD-40L82765-LD5-UNV-14-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297615
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-5000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3967.0 lumens
Efficiency: N/A
Efficacy: 98.2 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

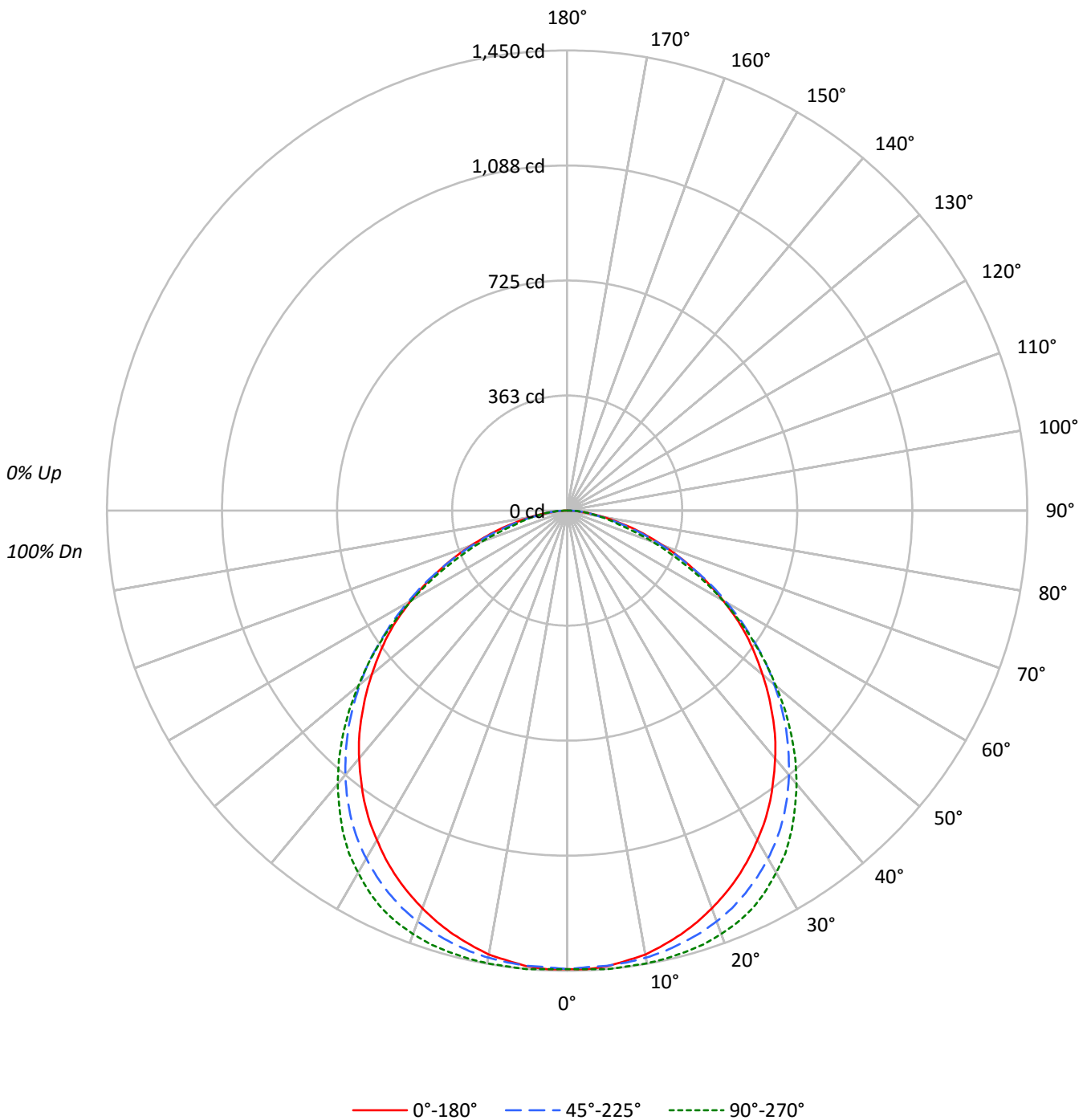
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3888	3888	3888
5°	3894	3889	3918
10°	3881	3910	3958
15°	3853	3927	4011
20°	3818	3945	4067
25°	3780	3949	4106
30°	3725	3934	4094
35°	3665	3897	4049
40°	3583	3819	3950
45°	3484	3713	3801
50°	3365	3566	3595
55°	3248	3373	3356
60°	3059	3126	3050
65°	2819	2830	2672
70°	2522	2466	2243
75°	2191	2044	1731
80°	1756	1592	1592
85°	1257	1476	1531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.5	3.5
10°-20°	398.9	10.1
20°-30°	612.4	15.4
30°-40°	737.6	18.6
40°-50°	745.4	18.8
50°-60°	635.8	16.0
60°-70°	435.2	11.0
70°-80°	210.0	5.3
80°-90°	54.1	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°	1148.8	29.0
0°-40°	1886.4	47.6
0°-60°	3267.6	82.4
0°-90°	3967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1445	1445	1445	1445	1445	
5°	1441	1441	1440	1448	1450	137
15°	1383	1394	1410	1434	1440	390
25°	1273	1293	1330	1369	1383	586
35°	1116	1140	1186	1224	1232	697
45°	916	940	976	999	999	706
55°	692	705	719	722	715	617
65°	443	448	444	428	420	439
75°	211	211	197	174	166	224
85°	41	44	48	50	50	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1445.0	1445.0	1445.0	1445.0	1445.0
2.5°	1446.7	1445.0	1439.7	1446.7	1446.7
5°	1441.4	1441.4	1439.7	1448.5	1450.3
7.5°	1430.8	1434.3	1436.1	1446.7	1448.5
10°	1420.2	1423.7	1430.8	1445.0	1448.5
12.5°	1402.5	1409.5	1421.9	1441.4	1445.0
15°	1383.0	1393.6	1409.5	1434.3	1439.7
17.5°	1360.0	1374.1	1395.4	1423.7	1432.6
20°	1333.4	1349.3	1377.7	1409.5	1420.2
22.5°	1305.1	1322.8	1356.4	1393.6	1404.2
25°	1273.2	1292.7	1329.9	1368.8	1383.0
27.5°	1237.8	1259.0	1299.8	1340.5	1352.9
30°	1198.8	1221.8	1266.1	1306.8	1317.5
32.5°	1159.9	1182.9	1228.9	1267.9	1280.3
35°	1115.6	1140.4	1186.4	1223.6	1232.5
37.5°	1067.8	1092.6	1138.6	1175.8	1179.3
40°	1020.0	1044.8	1087.3	1120.9	1124.5
42.5°	970.4	993.4	1032.4	1060.7	1064.2
45°	915.5	940.3	975.7	998.7	998.7
47.5°	860.6	885.4	915.5	931.4	931.4
50°	803.9	827.0	851.8	860.6	858.8
52.5°	747.3	768.5	789.8	791.5	788.0
55°	692.4	704.8	718.9	722.5	715.4
57.5°	632.2	642.8	651.7	646.3	641.0
60°	568.4	579.0	580.8	572.0	566.7
62.5°	506.4	515.3	515.3	501.1	492.3
65°	442.7	448.0	444.5	428.5	419.7
67.5°	382.5	386.0	378.9	363.0	348.8
70°	320.5	322.3	313.4	294.0	285.1
72.5°	263.8	265.6	255.0	232.0	221.3
75°	210.7	210.7	196.6	173.5	166.5
77.5°	157.6	162.9	147.0	134.6	134.6
80°	113.3	118.6	102.7	104.5	102.7
82.5°	74.4	79.7	74.4	74.4	74.4
85°	40.7	44.3	47.8	49.6	49.6
87.5°	12.4	21.2	23.0	24.8	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)