

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: P297895

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-40L82765-LD5-UNV-14-T1-W2A-5000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4177.0 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

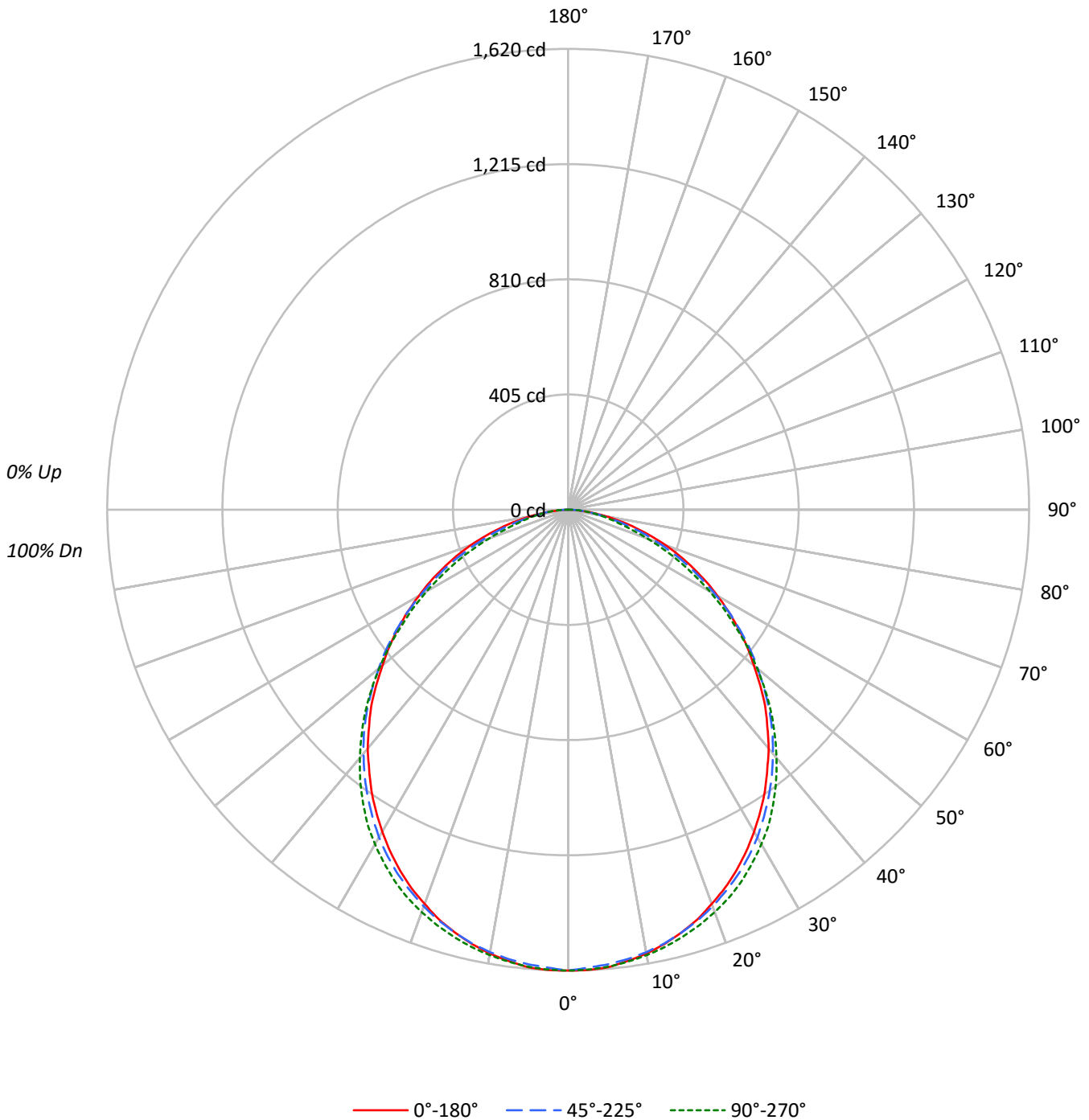
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	95	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	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4360	4360	4360
5°	4362	4333	4357
10°	4330	4316	4345
15°	4287	4287	4331
20°	4224	4249	4310
25°	4153	4200	4279
30°	4060	4132	4220
35°	3961	4037	4130
40°	3850	3931	3999
45°	3726	3807	3841
50°	3566	3640	3625
55°	3431	3456	3364
60°	3259	3211	3088
65°	3078	2954	2751
70°	2856	2619	2327
75°	2540	2246	1914
80°	2112	1838	1784
85°	1531	1639	1639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	3.7
10°-20°	435.5	10.4
20°-30°	652.8	15.6
30°-40°	769.1	18.4
40°-50°	767.0	18.4
50°-60°	652.4	15.6
60°-70°	455.4	10.9
70°-80°	231.5	5.5
80°-90°	60.4	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°	1241.2	29.7
0°-40°	2010.2	48.1
0°-60°	3429.7	82.1
0°-90°	4177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4177.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1620	1620	1620	1620	1620	
5°	1615	1611	1604	1613	1613	153
15°	1539	1539	1539	1553	1555	434
25°	1399	1401	1415	1436	1441	644
35°	1206	1208	1229	1254	1257	753
45°	979	983	1000	1008	1009	753
55°	731	731	737	726	717	653
65°	483	476	464	439	432	479
75°	244	236	216	190	184	259
85°	50	51	53	53	53	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1620.1	1620.1	1620.1	1620.1	1620.1
2.5°	1620.1	1618.3	1611.3	1618.3	1618.3
5°	1614.8	1611.3	1604.2	1613.0	1613.0
7.5°	1600.6	1598.9	1593.6	1602.4	1602.4
10°	1584.7	1582.9	1579.4	1590.0	1590.0
12.5°	1563.5	1563.5	1561.7	1572.3	1574.1
15°	1538.7	1538.7	1538.7	1552.8	1554.6
17.5°	1510.3	1508.6	1513.9	1529.8	1531.6
20°	1474.9	1476.7	1483.8	1501.5	1505.0
22.5°	1439.5	1441.3	1450.1	1471.4	1476.7
25°	1398.8	1400.6	1414.7	1436.0	1441.3
27.5°	1354.5	1358.1	1374.0	1397.0	1400.6
30°	1306.7	1310.3	1329.7	1352.8	1358.1
32.5°	1257.1	1262.4	1280.2	1304.9	1312.0
35°	1205.8	1207.6	1228.8	1253.6	1257.1
37.5°	1149.1	1154.4	1175.7	1196.9	1200.5
40°	1096.0	1099.6	1119.0	1136.7	1138.5
42.5°	1035.8	1041.1	1062.4	1074.8	1074.8
45°	979.2	982.7	1000.4	1007.5	1009.3
47.5°	915.4	918.9	934.9	938.4	938.4
50°	851.7	860.5	869.4	869.4	865.8
52.5°	793.2	795.0	805.6	798.5	795.0
55°	731.3	731.3	736.6	726.0	717.1
57.5°	669.3	669.3	669.3	655.1	648.0
60°	605.6	603.8	596.7	579.0	573.7
62.5°	545.3	540.0	529.4	511.7	501.1
65°	483.4	476.3	463.9	439.1	432.0
67.5°	424.9	412.6	398.4	375.4	363.0
70°	363.0	352.4	332.9	306.3	295.7
72.5°	302.8	292.2	276.2	249.7	233.7
75°	244.3	235.5	216.0	189.5	184.1
77.5°	187.7	182.4	162.9	150.5	148.7
80°	136.3	134.6	118.6	115.1	115.1
82.5°	90.3	88.5	83.2	83.2	81.4
85°	49.6	51.3	53.1	53.1	53.1
87.5°	17.7	21.2	24.8	24.8	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)