

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: P297420

Luminaire Tested: **D3X-WO-42L93050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-42L93050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3582.0 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

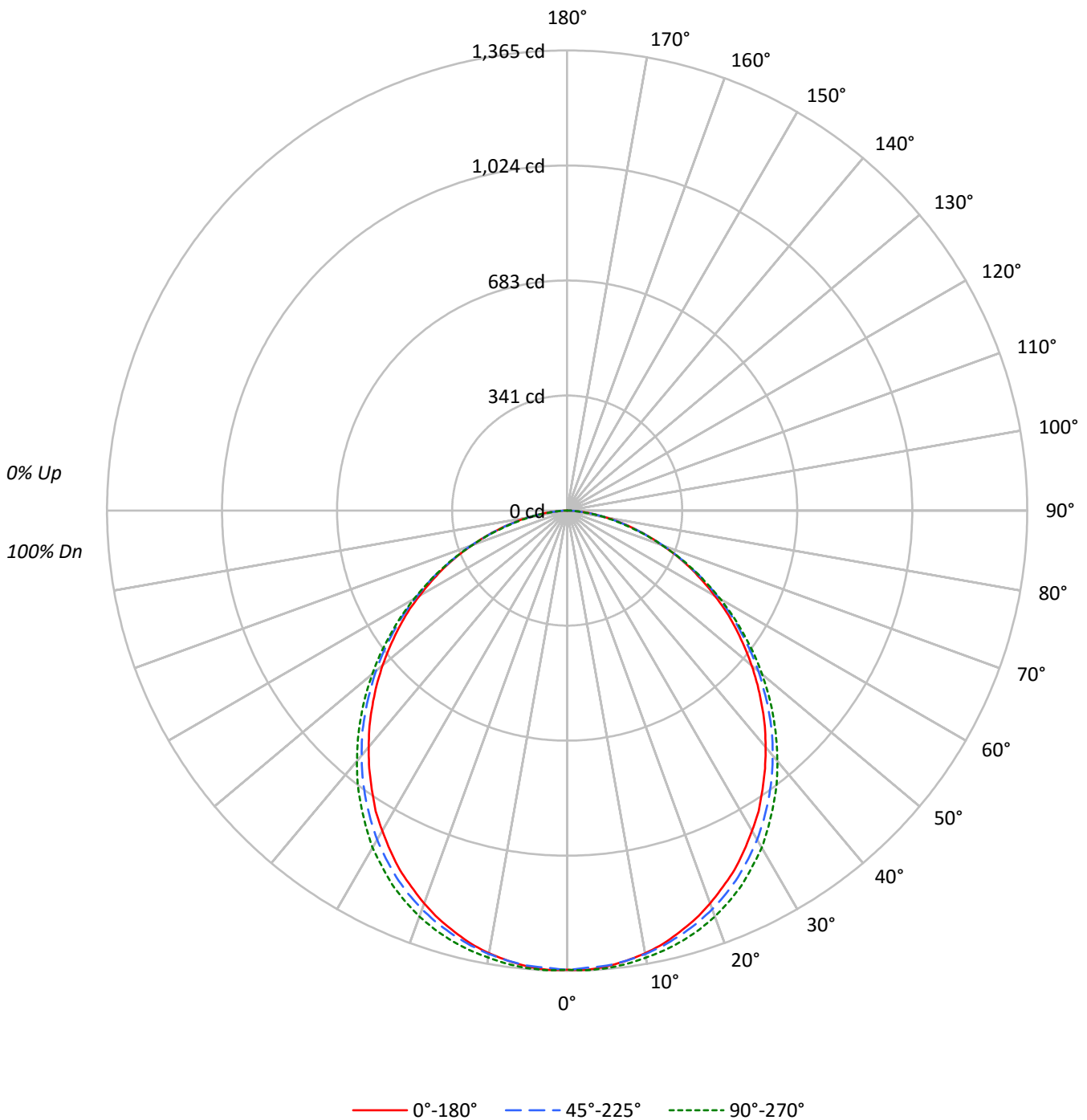
Input Watts (W): 29.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1833	1833	1833
5°	1833	1830	1840
10°	1822	1825	1840
15°	1802	1815	1841
20°	1776	1802	1835
25°	1745	1781	1820
30°	1704	1751	1794
35°	1659	1712	1752
40°	1609	1666	1704
45°	1554	1612	1646
50°	1495	1551	1579
55°	1432	1478	1500
60°	1361	1396	1412
65°	1283	1302	1310
70°	1177	1192	1177
75°	1060	1054	1023
80°	897	888	860
85°	670	651	577



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	3.6
10°-20°	368.5	10.3
20°-30°	552.4	15.4
30°-40°	650.6	18.2
40°-50°	650.7	18.2
50°-60°	561.4	15.7
60°-70°	404.0	11.3
70°-80°	214.3	6.0
80°-90°	51.1	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°	1049.9	29.3
0°-40°	1700.5	47.5
0°-60°	2912.6	81.3
0°-90°	3582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3582.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1362	1362	1362	1362	1362	
5°	1358	1356	1355	1360	1362	129
15°	1294	1297	1303	1316	1321	365
25°	1175	1182	1199	1220	1226	541
35°	1010	1022	1042	1061	1067	632
45°	817	828	847	862	865	630
55°	611	617	630	641	640	546
65°	403	404	409	412	412	399
75°	204	202	203	198	197	217
85°	43	43	42	39	37	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1362.3	1362.3	1362.3	1362.3	1362.3
2.5°	1363.5	1361.1	1357.5	1362.3	1364.7
5°	1357.5	1356.3	1355.1	1359.9	1362.3
7.5°	1346.6	1347.8	1346.6	1353.9	1356.3
10°	1333.3	1334.5	1335.8	1344.2	1346.6
12.5°	1316.4	1317.7	1321.3	1332.1	1335.8
15°	1293.5	1297.1	1303.2	1316.4	1321.3
17.5°	1269.4	1274.2	1282.7	1298.3	1303.2
20°	1240.4	1246.5	1258.5	1275.4	1281.5
22.5°	1207.9	1213.9	1230.8	1248.9	1254.9
25°	1175.3	1182.5	1199.4	1219.9	1226.0
27.5°	1136.7	1146.3	1164.4	1184.9	1189.8
30°	1096.8	1105.3	1127.0	1146.3	1154.8
32.5°	1057.0	1065.5	1086.0	1105.3	1111.3
35°	1010.0	1022.0	1042.5	1060.6	1066.7
37.5°	964.1	975.0	996.7	1014.8	1020.8
40°	915.8	925.5	948.4	965.3	970.1
42.5°	867.6	877.2	900.2	913.4	918.3
45°	816.9	827.8	847.1	861.5	865.2
47.5°	766.2	774.7	792.8	806.0	810.9
50°	714.3	722.8	740.9	751.7	754.2
52.5°	662.4	668.5	685.4	695.0	698.6
55°	610.6	616.6	629.9	640.7	639.5
57.5°	561.1	563.5	576.8	584.0	584.0
60°	505.6	508.0	518.9	523.7	524.9
62.5°	453.7	457.3	465.8	467.0	467.0
65°	403.0	404.2	409.1	411.5	411.5
67.5°	352.3	351.1	356.0	356.0	354.8
70°	299.2	301.7	302.9	300.5	299.2
72.5°	251.0	249.8	249.8	248.6	248.6
75°	203.9	201.5	202.7	197.9	196.7
77.5°	160.5	156.9	155.7	153.2	150.8
80°	115.8	115.8	114.6	112.2	111.0
82.5°	77.2	77.2	76.0	73.6	71.2
85°	43.4	43.4	42.2	38.6	37.4
87.5°	14.5	14.5	14.5	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)