

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: P297143

Luminaire Tested: **D3X-WG-42L93050-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-42L93050-LD5-UNV-24-T1-W2A-5000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3701.0 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

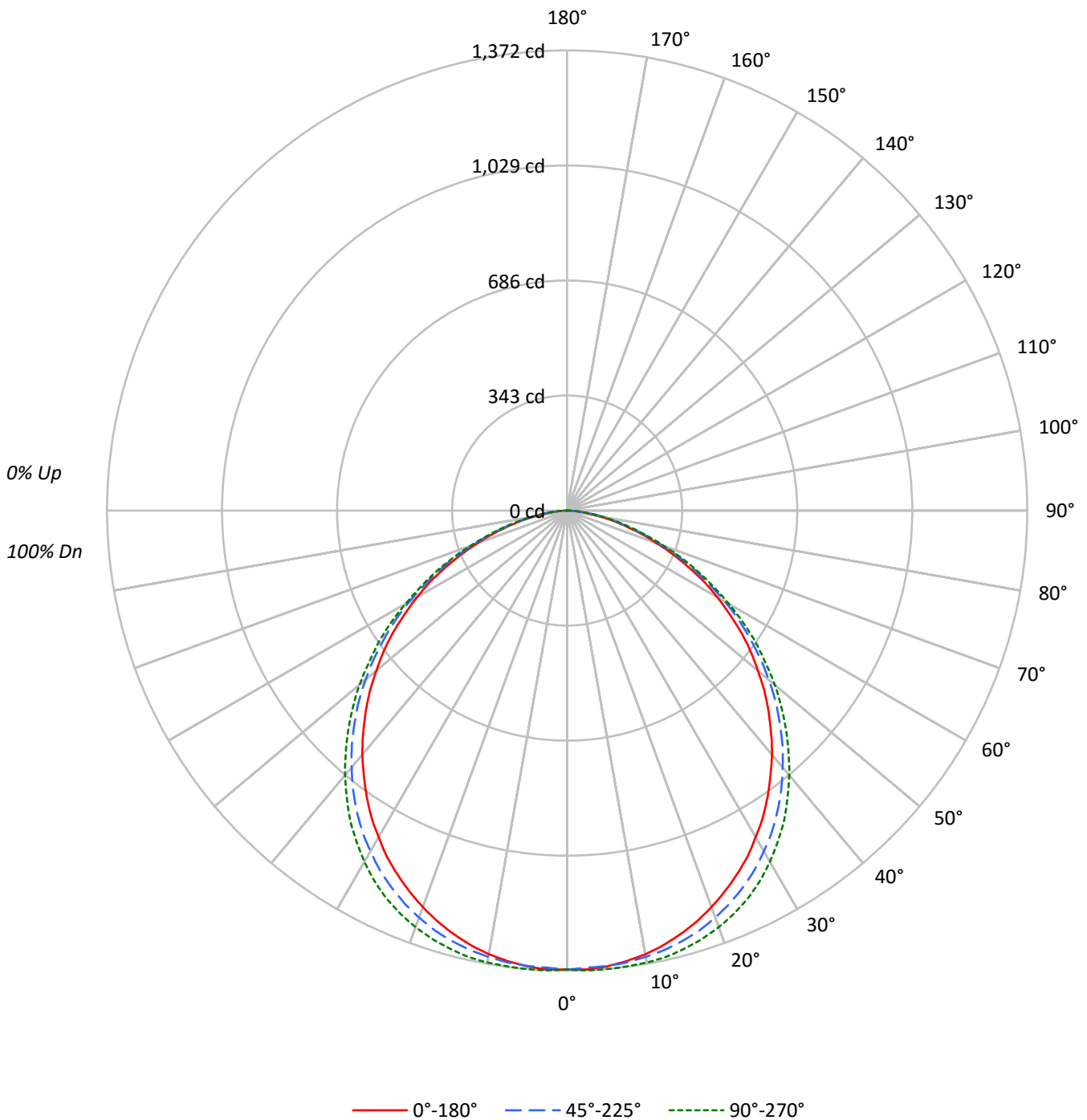
Input Watts (W): 30.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	47	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	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1841	1841	1841
5°	1843	1841	1853
10°	1835	1846	1869
15°	1821	1850	1884
20°	1801	1849	1893
25°	1777	1840	1893
30°	1747	1823	1879
35°	1712	1796	1853
40°	1670	1756	1809
45°	1617	1705	1756
50°	1554	1643	1693
55°	1487	1561	1611
60°	1391	1463	1498
65°	1271	1338	1372
70°	1116	1173	1205
75°	944	992	1027
80°	750	822	842
85°	511	614	593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	3.5
10°-20°	375.3	10.1
20°-30°	570.4	15.4
30°-40°	680.6	18.4
40°-50°	687.4	18.6
50°-60°	592.2	16.0
60°-70°	412.8	11.2
70°-80°	204.6	5.5
80°-90°	47.7	1.3
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°	1075.7	29.1
0°-40°	1756.3	47.5
0°-60°	3035.9	82.0
0°-90°	3701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3701.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1368	1368	1368	1368	1368	
5°	1364	1363	1363	1370	1372	130
15°	1307	1314	1328	1346	1352	369
25°	1197	1213	1240	1265	1275	551
35°	1042	1059	1094	1119	1128	651
45°	850	868	896	917	923	655
55°	634	647	666	681	687	565
65°	399	407	420	424	431	396
75°	182	184	191	195	198	196
85°	33	40	40	37	38	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1368.2	1368.2	1368.2	1368.2	1368.2
2.5°	1369.5	1366.9	1364.2	1369.5	1372.2
5°	1364.2	1362.9	1362.9	1369.5	1372.2
7.5°	1354.9	1354.9	1358.9	1368.2	1370.8
10°	1343.0	1345.6	1350.9	1364.2	1368.2
12.5°	1327.1	1332.4	1341.7	1357.6	1362.9
15°	1307.2	1313.8	1328.4	1345.6	1352.3
17.5°	1284.7	1293.9	1312.5	1332.4	1339.0
20°	1258.1	1270.1	1291.3	1313.8	1321.8
22.5°	1229.0	1243.6	1267.4	1291.3	1300.6
25°	1197.2	1213.1	1239.6	1264.8	1275.4
27.5°	1164.0	1179.9	1209.1	1234.3	1244.9
30°	1124.2	1142.8	1173.3	1199.8	1209.1
32.5°	1085.8	1104.4	1136.2	1160.0	1169.3
35°	1042.0	1059.3	1093.7	1118.9	1128.2
37.5°	995.6	1015.5	1048.7	1071.2	1079.2
40°	950.6	967.8	999.6	1022.2	1030.1
42.5°	900.2	918.7	950.6	970.5	977.1
45°	849.8	868.4	896.2	917.4	922.7
47.5°	798.1	815.3	843.2	860.4	865.7
50°	742.4	758.3	784.8	802.1	808.7
52.5°	689.4	704.0	726.5	741.1	745.1
55°	633.7	647.0	665.5	681.4	686.7
57.5°	574.1	588.6	605.9	619.1	623.1
60°	517.0	529.0	543.6	555.5	556.8
62.5°	461.4	466.7	479.9	490.5	491.9
65°	399.1	407.0	420.3	424.2	430.9
67.5°	342.0	347.3	358.0	363.3	368.6
70°	283.7	287.7	298.3	304.9	306.2
72.5°	233.3	234.7	242.6	247.9	249.2
75°	181.6	184.3	190.9	194.9	197.5
77.5°	137.9	140.5	145.8	148.5	148.5
80°	96.8	100.8	106.1	107.4	108.7
82.5°	62.3	67.6	71.6	72.9	70.3
85°	33.1	39.8	39.8	37.1	38.4
87.5°	11.9	14.6	15.9	17.2	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)