

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: P296861

Luminaire Tested: **D3X-WD-42L93050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-42L93050-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3631.0 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

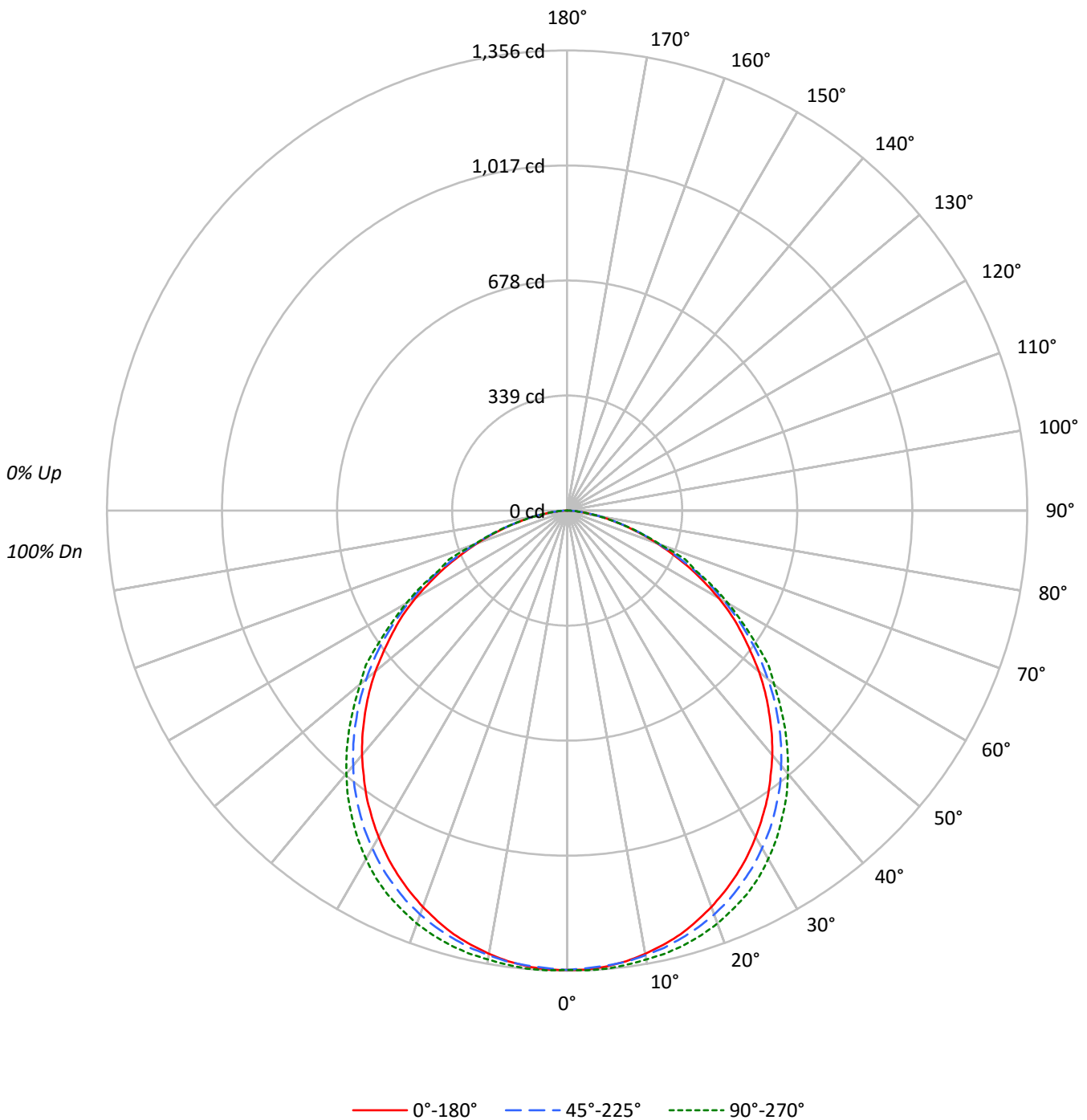
Input Watts (W): 29.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
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	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1821	1821	1821
5°	1821	1818	1830
10°	1812	1817	1835
15°	1800	1817	1847
20°	1780	1813	1854
25°	1756	1803	1855
30°	1727	1785	1842
35°	1693	1759	1815
40°	1652	1723	1778
45°	1601	1676	1728
50°	1544	1617	1666
55°	1473	1540	1586
60°	1388	1441	1476
65°	1261	1302	1327
70°	1107	1133	1148
75°	935	948	955
80°	747	757	737
85°	503	523	503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.3	3.5
10°-20°	368.9	10.2
20°-30°	559.7	15.4
30°-40°	668.2	18.4
40°-50°	676.5	18.6
50°-60°	584.8	16.1
60°-70°	405.3	11.2
70°-80°	196.1	5.4
80°-90°	43.1	1.2
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°	1056.9	29.1
0°-40°	1725.2	47.5
0°-60°	2986.5	82.2
0°-90°	3631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3631.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1354	1354	1354	1354	1354	
5°	1348	1347	1346	1352	1355	128
15°	1292	1295	1304	1320	1326	364
25°	1183	1191	1214	1239	1249	545
35°	1030	1040	1071	1098	1105	644
45°	842	853	881	903	908	649
55°	628	634	657	684	676	561
65°	396	400	409	416	417	392
75°	180	181	182	181	184	193
85°	33	35	34	33	33	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1353.6	1353.6	1353.6	1353.6	1353.6
2.5°	1353.6	1352.3	1349.7	1353.6	1356.2
5°	1348.4	1347.1	1345.8	1352.3	1354.9
7.5°	1339.3	1339.3	1340.6	1347.1	1349.7
10°	1326.3	1327.6	1330.2	1340.6	1343.2
12.5°	1310.6	1313.2	1319.7	1331.5	1336.7
15°	1292.4	1295.0	1304.1	1319.7	1326.3
17.5°	1268.9	1274.1	1287.2	1305.4	1311.9
20°	1242.9	1249.4	1266.3	1287.2	1295.0
22.5°	1214.2	1220.7	1242.9	1265.0	1272.8
25°	1182.9	1190.8	1214.2	1239.0	1249.4
27.5°	1149.1	1158.2	1184.2	1210.3	1220.7
30°	1111.3	1121.7	1149.1	1176.4	1185.5
32.5°	1070.9	1081.3	1112.6	1138.6	1147.8
35°	1030.5	1039.6	1070.9	1098.3	1104.8
37.5°	984.9	995.3	1029.2	1052.7	1061.8
40°	940.6	951.0	981.0	1004.5	1012.3
42.5°	892.4	902.8	932.8	955.0	961.5
45°	841.6	853.3	880.7	902.8	908.1
47.5°	790.8	799.9	828.6	848.1	852.0
50°	737.4	746.5	772.6	792.1	796.0
52.5°	681.4	695.7	716.5	730.9	747.8
55°	628.0	634.5	656.6	684.0	676.2
57.5°	574.5	578.4	596.7	608.4	611.0
60°	515.9	521.1	535.5	542.0	548.5
62.5°	454.7	458.6	475.5	482.0	484.6
65°	396.1	400.0	409.1	415.6	416.9
67.5°	336.1	340.0	347.8	353.1	376.5
70°	281.4	284.0	287.9	298.3	291.8
72.5°	229.3	230.6	234.5	234.5	235.8
75°	179.8	181.1	182.4	181.1	183.7
77.5°	134.2	136.8	138.1	136.8	135.5
80°	96.4	99.0	97.7	95.1	95.1
82.5°	62.5	63.8	62.5	61.2	61.2
85°	32.6	35.2	33.9	32.6	32.6
87.5°	11.7	13.0	14.3	15.6	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)