

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: P298334

Luminaire Tested: **D3X-WO-44L83050-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-44L83050-LD5-UNV-22-T1-W2A-5000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4648.0 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

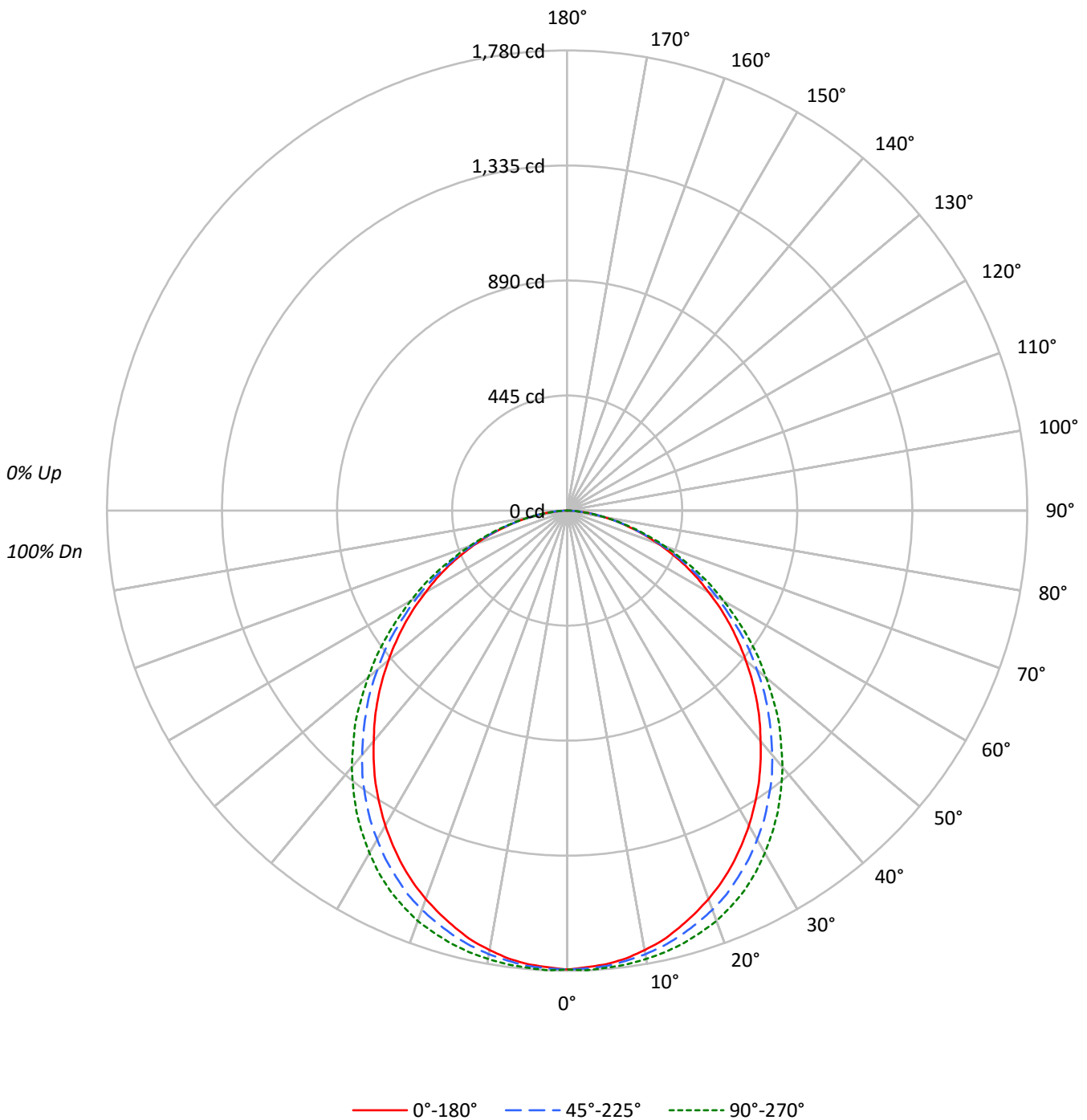
Input Watts (W): 37.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	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	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4776	4776	4776
5°	4757	4776	4795
10°	4717	4762	4812
15°	4655	4739	4829
20°	4579	4705	4838
25°	4487	4645	4817
30°	4372	4566	4753
35°	4242	4463	4668
40°	4089	4333	4553
45°	3946	4184	4412
50°	3779	4011	4205
55°	3605	3822	4007
60°	3400	3599	3761
65°	3212	3330	3493
70°	2950	3041	3150
75°	2623	2695	2767
80°	2259	2224	2224
85°	1714	1572	1430



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	3.6
10°-20°	479.9	10.3
20°-30°	720.6	15.5
30°-40°	848.1	18.2
40°-50°	845.9	18.2
50°-60°	725.9	15.6
60°-70°	519.9	11.2
70°-80°	275.3	5.9
80°-90°	64.4	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°	1368.5	29.4
0°-40°	2216.6	47.7
0°-60°	3788.4	81.5
0°-90°	4648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4648.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1761	1761	1768	1773	1775	167
15°	1671	1678	1701	1724	1733	471
25°	1511	1525	1564	1604	1622	695
35°	1291	1308	1358	1405	1421	807
45°	1037	1053	1099	1139	1159	799
55°	768	780	815	842	854	687
65°	504	507	523	544	548	498
75°	252	252	259	264	266	271
85°	56	53	51	46	46	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1775.0	1775.0	1775.0	1775.0	1775.0
2.5°	1768.1	1768.1	1772.7	1777.3	1779.7
5°	1761.1	1761.1	1768.1	1772.7	1775.0
7.5°	1747.3	1747.3	1756.5	1765.8	1770.4
10°	1726.4	1731.1	1742.6	1756.5	1761.1
12.5°	1703.3	1707.9	1724.1	1742.6	1749.6
15°	1670.9	1677.8	1701.0	1724.1	1733.4
17.5°	1636.2	1645.4	1673.2	1701.0	1712.5
20°	1599.1	1608.4	1643.1	1675.5	1689.4
22.5°	1557.5	1569.1	1608.4	1643.1	1657.0
25°	1511.2	1525.1	1564.4	1603.8	1622.3
27.5°	1460.3	1476.5	1520.5	1562.1	1578.3
30°	1407.1	1425.6	1469.5	1513.5	1529.7
32.5°	1349.2	1365.4	1418.6	1460.3	1476.5
35°	1291.4	1307.6	1358.5	1404.7	1420.9
37.5°	1228.9	1249.7	1300.6	1342.3	1358.5
40°	1164.1	1184.9	1233.5	1282.1	1296.0
42.5°	1101.6	1120.1	1166.4	1210.4	1224.2
45°	1036.8	1053.0	1099.3	1138.6	1159.4
47.5°	969.7	985.9	1032.2	1069.2	1080.8
50°	902.6	918.8	958.1	990.5	1004.4
52.5°	835.4	851.6	888.7	918.8	932.6
55°	768.3	779.9	814.6	842.4	854.0
57.5°	701.2	710.5	738.2	768.3	775.3
60°	631.8	643.4	668.8	689.6	698.9
62.5°	569.3	573.9	597.1	615.6	627.2
65°	504.5	506.8	523.0	543.8	548.5
67.5°	437.4	439.7	455.9	467.5	472.1
70°	374.9	374.9	386.5	395.7	400.4
72.5°	314.7	312.4	319.4	328.6	333.3
75°	252.3	252.3	259.2	263.8	266.1
77.5°	199.0	194.4	199.0	203.7	203.7
80°	145.8	143.5	143.5	145.8	143.5
82.5°	99.5	97.2	99.5	94.9	92.6
85°	55.5	53.2	50.9	46.3	46.3
87.5°	18.5	16.2	16.2	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)