

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: P297432

Luminaire Tested: **D3X-WO-50L93050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297432
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-50L93050-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4662.0 lumens
Efficiency: N/A
Efficacy: 127.7 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

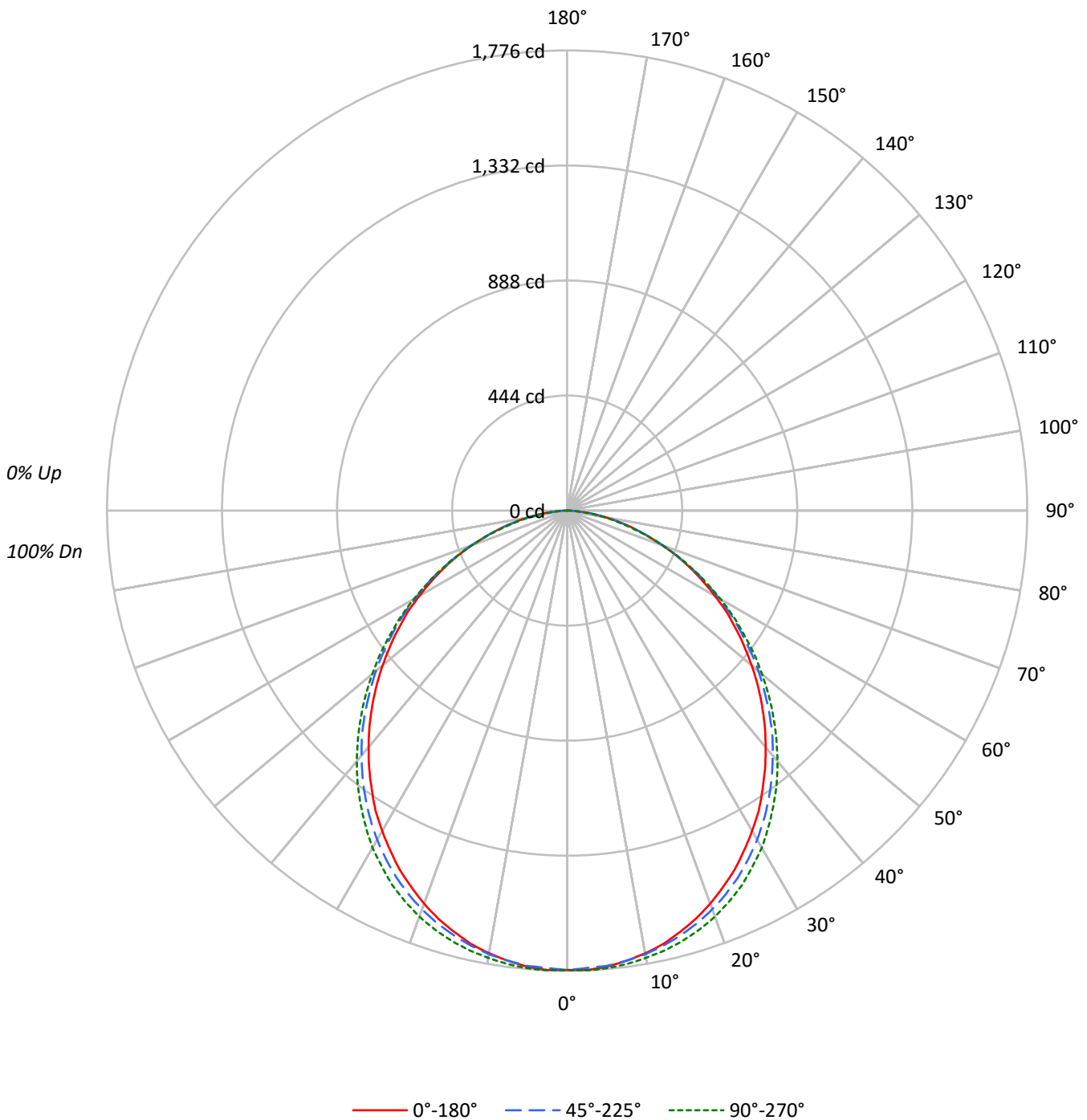
Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2386	2386	2386
5°	2386	2382	2395
10°	2371	2375	2394
15°	2345	2363	2395
20°	2312	2345	2388
25°	2271	2317	2369
30°	2218	2279	2335
35°	2159	2229	2280
40°	2094	2168	2218
45°	2023	2098	2143
50°	1946	2018	2054
55°	1864	1923	1952
60°	1771	1817	1838
65°	1670	1695	1705
70°	1532	1551	1532
75°	1380	1371	1331
80°	1168	1156	1120
85°	872	849	752



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	3.6
10°-20°	479.5	10.3
20°-30°	719.0	15.4
30°-40°	846.7	18.2
40°-50°	846.9	18.2
50°-60°	730.7	15.7
60°-70°	525.8	11.3
70°-80°	278.9	6.0
80°-90°	66.5	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°	1366.4	29.3
0°-40°	2213.2	47.5
0°-60°	3790.8	81.3
0°-90°	4662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1773	1773	1773	1773	1773	
5°	1767	1765	1764	1770	1773	168
15°	1684	1688	1696	1713	1720	475
25°	1530	1539	1561	1588	1596	704
35°	1314	1330	1357	1380	1388	822
45°	1063	1077	1102	1121	1126	820
55°	795	802	820	834	832	711
65°	524	526	532	536	536	519
75°	265	262	264	258	256	282
85°	56	56	55	50	49	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1773.0	1773.0	1773.0	1773.0	1773.0
2.5°	1774.6	1771.5	1766.8	1773.0	1776.2
5°	1766.8	1765.2	1763.6	1769.9	1773.0
7.5°	1752.6	1754.2	1752.6	1762.1	1765.2
10°	1735.4	1736.9	1738.5	1749.5	1752.6
12.5°	1713.4	1714.9	1719.6	1733.8	1738.5
15°	1683.5	1688.2	1696.1	1713.4	1719.6
17.5°	1652.1	1658.4	1669.4	1689.8	1696.1
20°	1614.4	1622.3	1638.0	1660.0	1667.8
22.5°	1572.0	1579.9	1601.9	1625.4	1633.3
25°	1529.6	1539.0	1561.0	1587.7	1595.6
27.5°	1479.4	1491.9	1515.5	1542.2	1548.5
30°	1427.5	1438.5	1466.8	1491.9	1502.9
32.5°	1375.7	1386.7	1413.4	1438.5	1446.4
35°	1314.5	1330.2	1356.9	1380.4	1388.3
37.5°	1254.8	1268.9	1297.2	1320.8	1328.6
40°	1192.0	1204.5	1234.4	1256.4	1262.6
42.5°	1129.2	1141.7	1171.6	1188.8	1195.1
45°	1063.2	1077.3	1102.5	1121.3	1126.0
47.5°	997.2	1008.2	1031.8	1049.1	1055.3
50°	929.7	940.7	964.3	978.4	981.5
52.5°	862.2	870.0	892.0	904.6	909.3
55°	794.7	802.5	819.8	833.9	832.3
57.5°	730.3	733.4	750.7	760.1	760.1
60°	658.0	661.2	675.3	681.6	683.1
62.5°	590.5	595.2	606.2	607.8	607.8
65°	524.5	526.1	532.4	535.5	535.5
67.5°	458.6	457.0	463.3	463.3	461.7
70°	389.5	392.6	394.2	391.0	389.5
72.5°	326.7	325.1	325.1	323.5	323.5
75°	265.4	262.3	263.8	257.6	256.0
77.5°	208.9	204.2	202.6	199.4	196.3
80°	150.8	150.8	149.2	146.1	144.5
82.5°	100.5	100.5	98.9	95.8	92.7
85°	56.5	56.5	55.0	50.3	48.7
87.5°	18.8	18.8	18.8	18.8	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)