

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: P296873

Luminaire Tested: **D3X-WD-50L93050-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296873  
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-50L93050-LD5-UNV-24-T1-W2A-5000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4376.0 lumens  
Efficiency: N/A  
Efficacy: 119.9 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

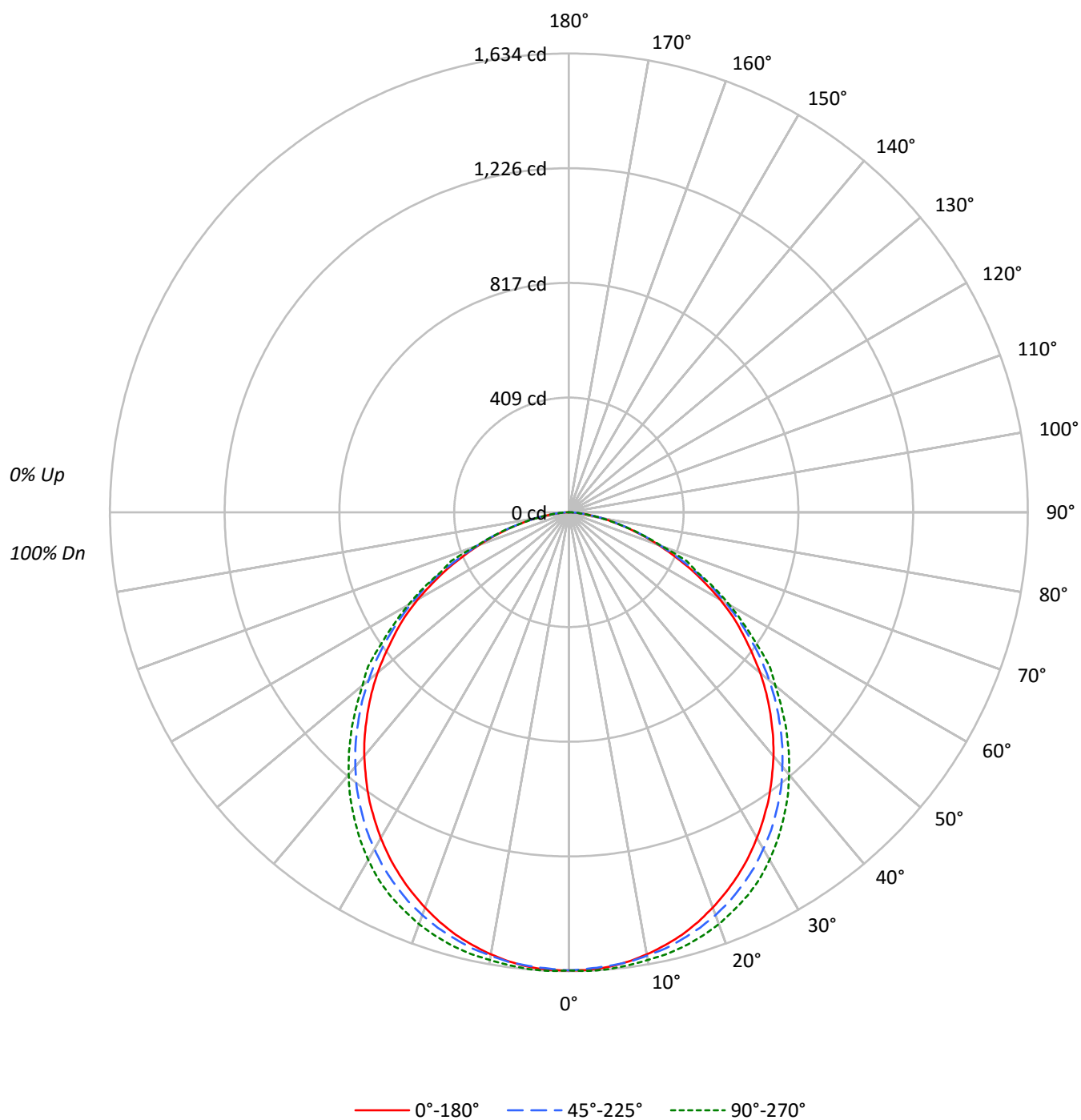
Input Watts (W): 36.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		94	92	90		91	89	87
2	100	92	85	80	97	90	84	79		87	81	77		83	79	75		80	77	74
3	91	81	73	67	89	79	72	66		76	70	65		74	68	64		71	67	63
4	84	72	63	57	81	71	63	56		68	61	56		66	60	55		64	58	54
5	77	64	56	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		54	47	42		52	46	42
7	66	53	44	38	64	52	44	38		50	43	38		49	42	37		48	42	37
8	61	48	40	34	60	47	39	34		46	39	34		45	38	33		44	38	33
9	57	44	36	31	56	44	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	53	40	33	28		39	32	28		38	32	27		37	32	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2195	2195	2195
5°	2195	2191	2205
10°	2184	2190	2212
15°	2170	2189	2226
20°	2145	2185	2235
25°	2117	2172	2235
30°	2081	2151	2220
35°	2040	2120	2187
40°	1991	2077	2143
45°	1930	2020	2082
50°	1860	1949	2008
55°	1775	1856	1912
60°	1673	1736	1779
65°	1520	1570	1599
70°	1334	1365	1384
75°	1127	1143	1151
80°	900	913	888
85°	607	630	607



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.6	3.5
10°-20°	444.6	10.2
20°-30°	674.6	15.4
30°-40°	805.4	18.4
40°-50°	815.3	18.6
50°-60°	704.8	16.1
60°-70°	488.5	11.2
70°-80°	236.3	5.4
80°-90°	52.0	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°	1273.8	29.1
0°-40°	2079.1	47.5
0°-60°	3599.2	82.2
0°-90°	4376.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4376.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1631	1631	1631	1631	1631	
5°	1625	1624	1622	1630	1633	154
15°	1558	1561	1572	1590	1598	439
25°	1426	1435	1463	1493	1506	657
35°	1242	1253	1291	1324	1332	776
45°	1014	1028	1061	1088	1094	782
55°	757	765	791	824	815	676
65°	477	482	493	501	502	472
75°	217	218	220	218	221	232
85°	39	42	41	39	39	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1631.3	1631.3	1631.3	1631.3	1631.3
2.5°	1631.3	1629.8	1626.6	1631.3	1634.5
5°	1625.1	1623.5	1621.9	1629.8	1632.9
7.5°	1614.1	1614.1	1615.6	1623.5	1626.6
10°	1598.4	1599.9	1603.1	1615.6	1618.8
12.5°	1579.5	1582.7	1590.5	1604.6	1610.9
15°	1557.5	1560.7	1571.7	1590.5	1598.4
17.5°	1529.3	1535.6	1551.3	1573.2	1581.1
20°	1497.9	1505.7	1526.1	1551.3	1560.7
22.5°	1463.3	1471.2	1497.9	1524.6	1534.0
25°	1425.7	1435.1	1463.3	1493.2	1505.7
27.5°	1384.8	1395.8	1427.2	1458.6	1471.2
30°	1339.3	1351.9	1384.8	1417.8	1428.8
32.5°	1290.6	1303.2	1340.9	1372.3	1383.3
35°	1242.0	1252.9	1290.6	1323.6	1331.5
37.5°	1187.0	1199.6	1240.4	1268.6	1279.6
40°	1133.6	1146.2	1182.3	1210.6	1220.0
42.5°	1075.5	1088.1	1124.2	1150.9	1158.7
45°	1014.3	1028.4	1061.4	1088.1	1094.4
47.5°	953.1	964.0	998.6	1022.1	1026.9
50°	888.7	899.7	931.1	954.6	959.3
52.5°	821.2	838.4	863.6	880.8	901.2
55°	756.8	764.6	791.3	824.3	814.9
57.5°	692.4	697.1	719.1	733.2	736.4
60°	621.8	628.0	645.3	653.2	661.0
62.5°	548.0	552.7	573.1	580.9	584.1
65°	477.3	482.0	493.0	500.9	502.4
67.5°	405.1	409.8	419.2	425.5	453.8
70°	339.1	342.3	347.0	359.6	351.7
72.5°	276.3	277.9	282.6	282.6	284.2
75°	216.7	218.2	219.8	218.2	221.4
77.5°	161.7	164.9	166.4	164.9	163.3
80°	116.2	119.3	117.8	114.6	114.6
82.5°	75.4	76.9	75.4	73.8	73.8
85°	39.3	42.4	40.8	39.3	39.3
87.5°	14.1	15.7	17.3	18.8	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)