

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: P297221

Luminaire Tested: **D3X-WG-50L92765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297221  
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-50L92765-LD5-UNV-24-T1-W2A-5500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4406.0 lumens  
Efficiency: N/A  
Efficacy: 122.4 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

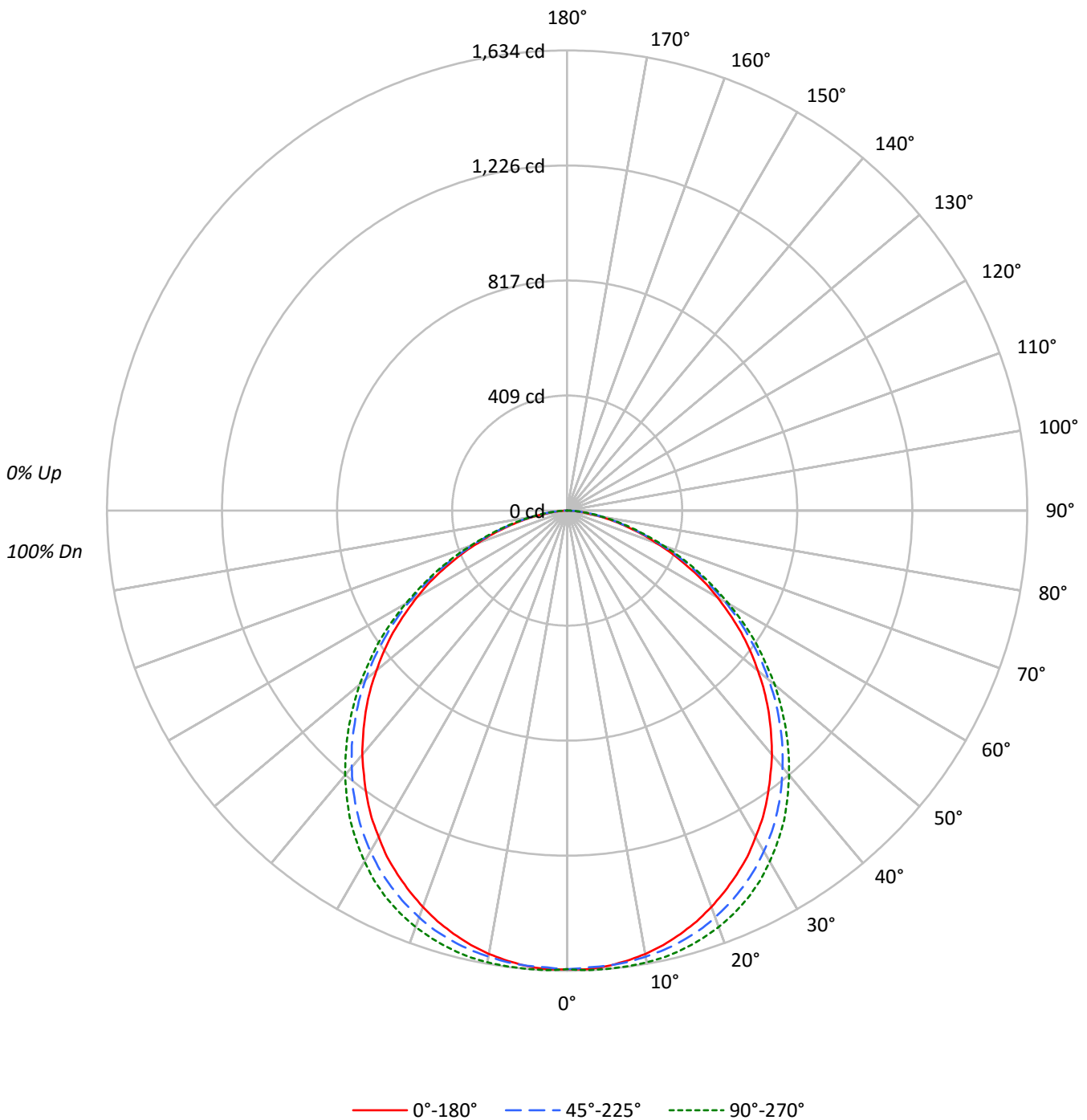
Input Watts (W): 36  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2192	2192	2192
5°	2194	2191	2206
10°	2184	2197	2225
15°	2168	2203	2243
20°	2145	2201	2253
25°	2116	2191	2254
30°	2079	2170	2236
35°	2038	2139	2206
40°	1988	2090	2154
45°	1925	2030	2090
50°	1850	1956	2015
55°	1770	1859	1918
60°	1656	1741	1784
65°	1513	1593	1633
70°	1329	1397	1434
75°	1124	1182	1223
80°	893	979	1003
85°	610	730	707



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.8	3.5
10°-20°	446.8	10.1
20°-30°	679.0	15.4
30°-40°	810.2	18.4
40°-50°	818.3	18.6
50°-60°	705.0	16.0
60°-70°	491.5	11.2
70°-80°	243.6	5.5
80°-90°	56.8	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°	1280.6	29.1
0°-40°	2090.8	47.5
0°-60°	3614.2	82.0
0°-90°	4406.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4406.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1629	1629	1629	1629	1629	
5°	1624	1622	1622	1630	1634	154
15°	1556	1564	1582	1602	1610	439
25°	1425	1444	1476	1506	1518	657
35°	1240	1261	1302	1332	1343	775
45°	1012	1034	1067	1092	1098	780
55°	754	770	792	811	818	672
65°	475	484	500	505	513	472
75°	216	219	227	232	235	233
85°	40	47	47	44	46	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1628.8	1628.8	1628.8	1628.8	1628.8
2.5°	1630.4	1627.2	1624.1	1630.4	1633.5
5°	1624.1	1622.5	1622.5	1630.4	1633.5
7.5°	1613.0	1613.0	1617.8	1628.8	1632.0
10°	1598.8	1602.0	1608.3	1624.1	1628.8
12.5°	1579.9	1586.2	1597.2	1616.2	1622.5
15°	1556.2	1564.1	1581.5	1602.0	1609.9
17.5°	1529.4	1540.4	1562.5	1586.2	1594.1
20°	1497.8	1512.0	1537.3	1564.1	1573.6
22.5°	1463.1	1480.4	1508.9	1537.3	1548.3
25°	1425.2	1444.1	1475.7	1505.7	1518.3
27.5°	1385.7	1404.7	1439.4	1469.4	1482.0
30°	1338.4	1360.5	1396.8	1428.4	1439.4
32.5°	1292.6	1314.7	1352.6	1381.0	1392.1
35°	1240.5	1261.1	1302.1	1332.1	1343.1
37.5°	1185.3	1209.0	1248.4	1275.3	1284.7
40°	1131.6	1152.2	1190.0	1216.9	1226.3
42.5°	1071.7	1093.8	1131.6	1155.3	1163.2
45°	1011.7	1033.8	1066.9	1092.2	1098.5
47.5°	950.1	970.7	1003.8	1024.3	1030.6
50°	883.8	902.8	934.4	954.9	962.8
52.5°	820.7	838.1	864.9	882.3	887.0
55°	754.4	770.2	792.3	811.2	817.6
57.5°	683.4	700.8	721.3	737.1	741.8
60°	615.5	629.7	647.1	661.3	662.9
62.5°	549.2	555.6	571.3	584.0	585.5
65°	475.1	484.5	500.3	505.1	512.9
67.5°	407.2	413.5	426.1	432.5	438.8
70°	337.8	342.5	355.1	363.0	364.6
72.5°	277.8	279.4	288.8	295.1	296.7
75°	216.2	219.4	227.3	232.0	235.2
77.5°	164.1	167.3	173.6	176.8	176.8
80°	115.2	120.0	126.3	127.8	129.4
82.5°	74.2	80.5	85.2	86.8	83.6
85°	39.5	47.3	47.3	44.2	45.8
87.5°	14.2	17.4	18.9	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)