

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: P297000

Luminaire Tested: **D3X-WG-42L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297000  
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-42L83050-LD5-UNV-24-T1-W2A-3500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3963.0 lumens  
Efficiency: N/A  
Efficacy: 136.2 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

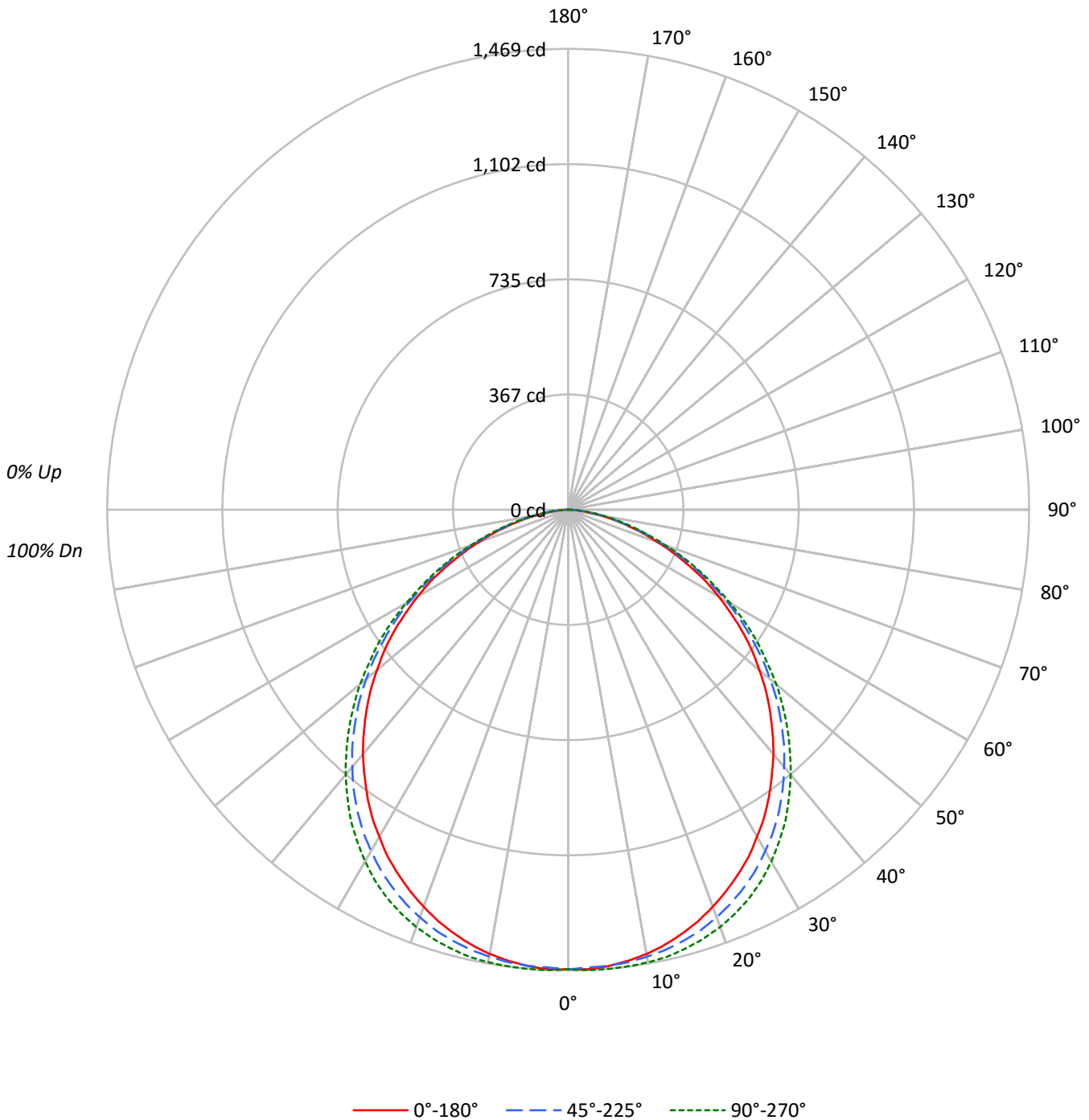
Input Watts (W): 29.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P297000

CATALOG NUMBER: D3X-WG-42L83050-LD5-UNV-24-T1-W2A-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P297000

CATALOG NUMBER: D3X-WG-42L83050-LD5-UNV-24-T1-W2A-3500K

**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°	1971	1971	1971
5°	1973	1971	1984
10°	1965	1976	2002
15°	1950	1981	2017
20°	1929	1980	2027
25°	1903	1970	2027
30°	1870	1952	2011
35°	1833	1924	1984
40°	1788	1880	1937
45°	1732	1826	1880
50°	1664	1759	1813
55°	1592	1672	1725
60°	1490	1566	1604
65°	1360	1433	1469
70°	1195	1257	1290
75°	1011	1063	1099
80°	803	880	902
85°	548	658	636



TEST NUMBER: P297000

CATALOG NUMBER: D3X-WG-42L83050-LD5-UNV-24-T1-W2A-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.2	3.5
10°-20°	401.9	10.1
20°-30°	610.7	15.4
30°-40°	728.8	18.4
40°-50°	736.0	18.6
50°-60°	634.1	16.0
60°-70°	442.1	11.2
70°-80°	219.1	5.5
80°-90°	51.1	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°	1151.8	29.1
0°-40°	1880.6	47.5
0°-60°	3250.8	82.0
0°-90°	3963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3963.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1465	1465	1465	1465	1465	
5°	1461	1459	1459	1466	1469	139
15°	1400	1407	1422	1441	1448	395
25°	1282	1299	1327	1354	1366	591
35°	1116	1134	1171	1198	1208	697
45°	910	930	960	982	988	701
55°	679	693	713	730	735	605
65°	427	436	450	454	461	424
75°	194	197	204	209	212	210
85°	36	43	43	40	41	45
90°	0	0	0	0	0	



TEST NUMBER: P297000

CATALOG NUMBER: D3X-WG-42L83050-LD5-UNV-24-T1-W2A-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1465.0	1465.0	1465.0	1465.0	1465.0
2.5°	1466.5	1463.6	1460.8	1466.5	1469.3
5°	1460.8	1459.4	1459.4	1466.5	1469.3
7.5°	1450.8	1450.8	1455.1	1465.0	1467.9
10°	1438.1	1440.9	1446.6	1460.8	1465.0
12.5°	1421.0	1426.7	1436.6	1453.7	1459.4
15°	1399.7	1406.8	1422.4	1440.9	1448.0
17.5°	1375.6	1385.5	1405.4	1426.7	1433.8
20°	1347.2	1360.0	1382.7	1406.8	1415.4
22.5°	1316.0	1331.6	1357.1	1382.7	1392.6
25°	1281.9	1298.9	1327.3	1354.3	1365.7
27.5°	1246.4	1263.5	1294.7	1321.7	1333.0
30°	1203.8	1223.7	1256.4	1284.7	1294.7
32.5°	1162.7	1182.5	1216.6	1242.2	1252.1
35°	1115.8	1134.3	1171.2	1198.2	1208.1
37.5°	1066.1	1087.4	1122.9	1147.0	1155.6
40°	1017.9	1036.3	1070.4	1094.5	1103.0
42.5°	963.9	983.8	1017.9	1039.2	1046.3
45°	910.0	929.8	959.7	982.4	988.0
47.5°	854.6	873.1	902.9	921.3	927.0
50°	795.0	812.0	840.4	858.9	866.0
52.5°	738.2	753.8	777.9	793.6	797.8
55°	678.6	692.8	712.6	729.7	735.4
57.5°	614.7	630.3	648.8	663.0	667.2
60°	553.6	566.4	582.0	594.8	596.2
62.5°	494.0	499.7	513.9	525.3	526.7
65°	427.3	435.8	450.0	454.3	461.4
67.5°	366.3	371.9	383.3	389.0	394.7
70°	303.8	308.1	319.4	326.5	327.9
72.5°	249.9	251.3	259.8	265.5	266.9
75°	194.5	197.3	204.4	208.7	211.5
77.5°	147.6	150.5	156.2	159.0	159.0
80°	103.6	107.9	113.6	115.0	116.4
82.5°	66.7	72.4	76.7	78.1	75.2
85°	35.5	42.6	42.6	39.7	41.2
87.5°	12.8	15.6	17.0	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)