

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: P297289

Luminaire Tested: **D3X-WO-50L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297289
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-50L83050-LD5-UNV-24-T1-W2A-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4716.0 lumens
Efficiency: N/A
Efficacy: 135.1 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

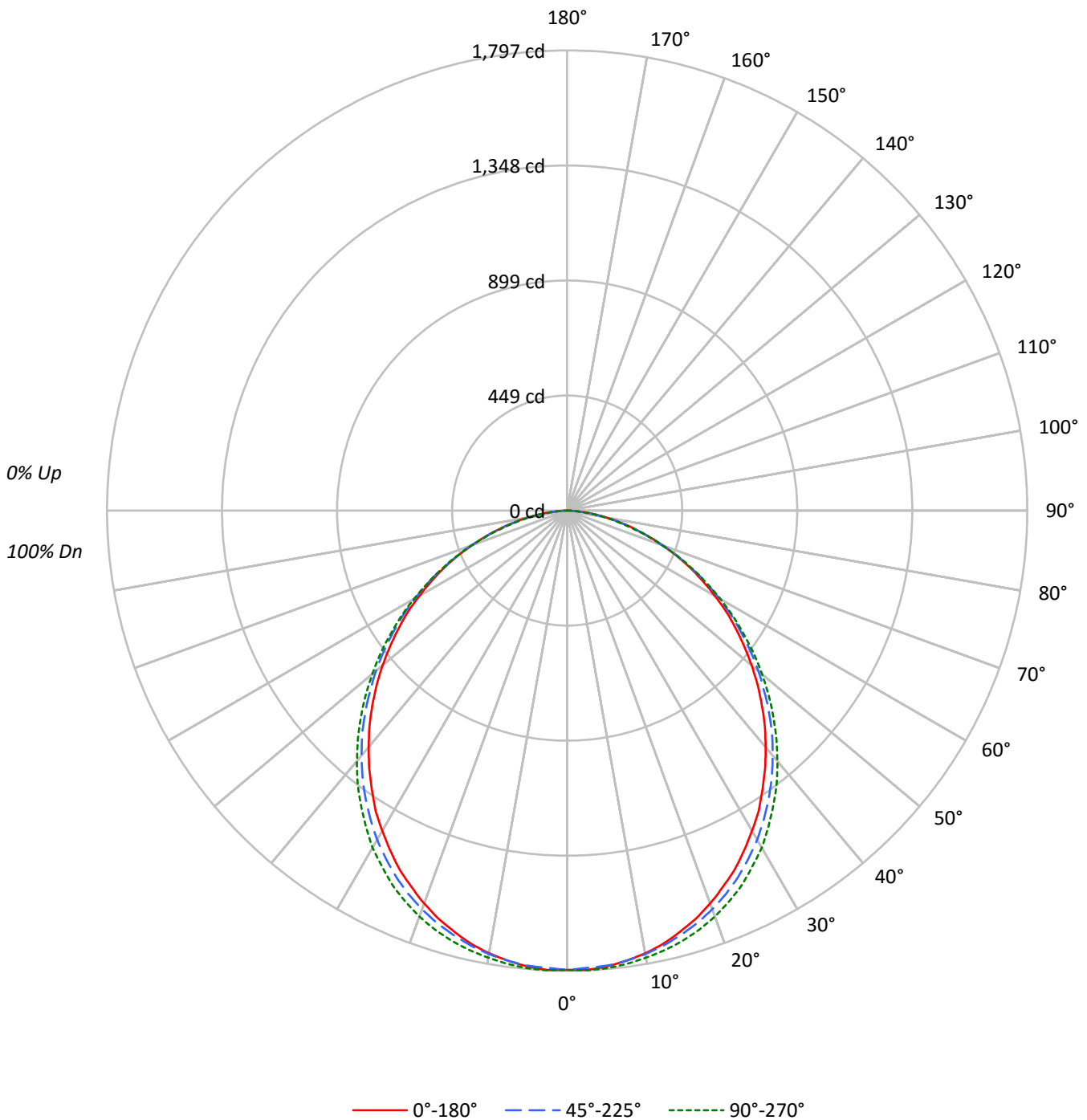
Input Watts (W): 34.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P297289

CATALOG NUMBER: D3X-WO-50L83050-LD5-UNV-24-T1-W2A-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P297289

CATALOG NUMBER: D3X-WO-50L83050-LD5-UNV-24-T1-W2A-3000K

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	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					100			
1	109	105	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	41	39					39			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2413	2413	2413
5°	2414	2410	2422
10°	2398	2403	2422
15°	2372	2390	2423
20°	2338	2373	2416
25°	2297	2344	2396
30°	2244	2305	2362
35°	2184	2255	2307
40°	2118	2193	2243
45°	2046	2122	2167
50°	1969	2042	2078
55°	1886	1945	1975
60°	1791	1838	1860
65°	1689	1715	1725
70°	1550	1569	1550
75°	1396	1387	1346
80°	1182	1169	1133
85°	883	858	760



TEST NUMBER: P297289

CATALOG NUMBER: D3X-WO-50L83050-LD5-UNV-24-T1-W2A-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.8	3.6
10°-20°	485.1	10.3
20°-30°	727.3	15.4
30°-40°	856.6	18.2
40°-50°	856.7	18.2
50°-60°	739.2	15.7
60°-70°	531.9	11.3
70°-80°	282.1	6.0
80°-90°	67.3	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°	1382.3	29.3
0°-40°	2238.8	47.5
0°-60°	3834.7	81.3
0°-90°	4716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1794	1794	1794	1794	1794	
5°	1787	1786	1784	1790	1794	170
15°	1703	1708	1716	1733	1740	480
25°	1547	1557	1579	1606	1614	712
35°	1330	1346	1373	1396	1404	832
45°	1076	1090	1115	1134	1139	830
55°	804	812	829	844	842	719
65°	531	532	539	542	542	525
75°	268	265	267	260	259	286
85°	57	57	56	51	49	69
90°	0	0	0	0	0	



TEST NUMBER: P297289

CATALOG NUMBER: D3X-WO-50L83050-LD5-UNV-24-T1-W2A-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1793.6	1793.6	1793.6	1793.6	1793.6
2.5°	1795.2	1792.0	1787.2	1793.6	1796.8
5°	1787.2	1785.6	1784.1	1790.4	1793.6
7.5°	1772.9	1774.5	1772.9	1782.5	1785.6
10°	1755.5	1757.0	1758.6	1769.8	1772.9
12.5°	1733.2	1734.8	1739.6	1753.9	1758.6
15°	1703.0	1707.8	1715.7	1733.2	1739.6
17.5°	1671.3	1677.6	1688.7	1709.4	1715.7
20°	1633.1	1641.1	1657.0	1679.2	1687.1
22.5°	1590.2	1598.2	1620.4	1644.2	1652.2
25°	1547.3	1556.9	1579.1	1606.1	1614.1
27.5°	1496.5	1509.2	1533.0	1560.1	1566.4
30°	1444.1	1455.2	1483.8	1509.2	1520.3
32.5°	1391.7	1402.8	1429.8	1455.2	1463.1
35°	1329.7	1345.6	1372.6	1396.4	1404.4
37.5°	1269.3	1283.6	1312.2	1336.1	1344.0
40°	1205.8	1218.5	1248.7	1270.9	1277.3
42.5°	1142.2	1154.9	1185.1	1202.6	1209.0
45°	1075.5	1089.8	1115.2	1134.3	1139.1
47.5°	1008.8	1019.9	1043.7	1061.2	1067.6
50°	940.5	951.6	975.4	989.7	992.9
52.5°	872.2	880.1	902.4	915.1	919.8
55°	803.9	811.8	829.3	843.6	842.0
57.5°	738.7	741.9	759.4	768.9	768.9
60°	665.6	668.8	683.1	689.5	691.1
62.5°	597.3	602.1	613.2	614.8	614.8
65°	530.6	532.2	538.6	541.7	541.7
67.5°	463.9	462.3	468.7	468.7	467.1
70°	394.0	397.2	398.8	395.6	394.0
72.5°	330.4	328.8	328.8	327.3	327.3
75°	268.5	265.3	266.9	260.5	258.9
77.5°	211.3	206.5	204.9	201.8	198.6
80°	152.5	152.5	150.9	147.7	146.2
82.5°	101.7	101.7	100.1	96.9	93.7
85°	57.2	57.2	55.6	50.8	49.2
87.5°	19.1	19.1	19.1	19.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)