

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: P297284

Luminaire Tested: **D3X-WO-45L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297284  
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-45L83050-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: 4297.0 lumens  
Efficiency: N/A  
Efficacy: 136.8 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

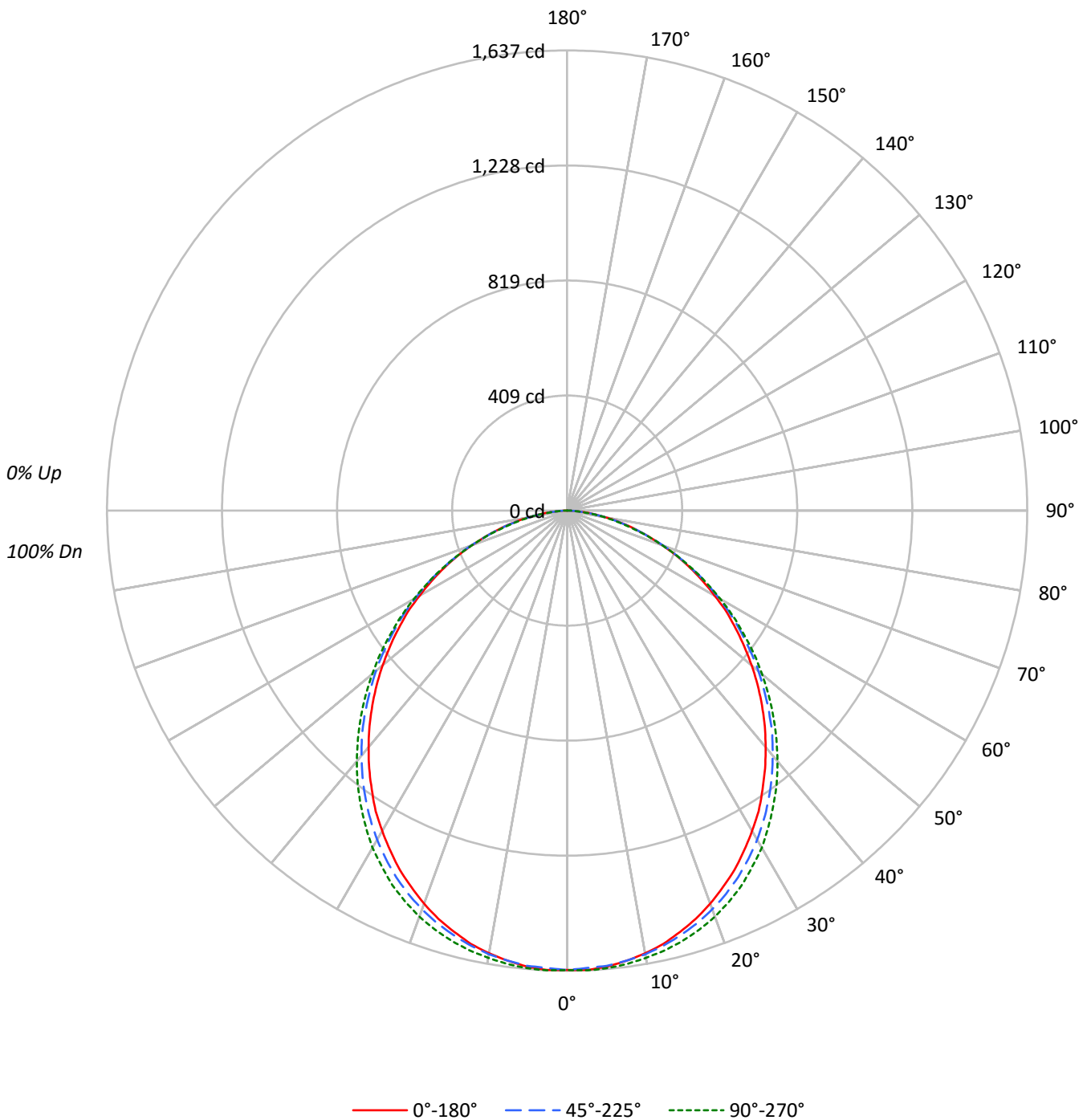
Input Watts (W): 31.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2199	2199	2199
5°	2199	2195	2207
10°	2185	2189	2207
15°	2161	2178	2208
20°	2131	2162	2201
25°	2093	2136	2183
30°	2044	2101	2152
35°	1990	2054	2102
40°	1930	1998	2044
45°	1865	1933	1975
50°	1794	1860	1894
55°	1718	1772	1800
60°	1632	1675	1695
65°	1539	1562	1571
70°	1412	1429	1412
75°	1272	1264	1226
80°	1077	1065	1032
85°	804	783	693



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.7	3.6
10°-20°	442.0	10.3
20°-30°	662.7	15.4
30°-40°	780.5	18.2
40°-50°	780.6	18.2
50°-60°	673.5	15.7
60°-70°	484.6	11.3
70°-80°	257.1	6.0
80°-90°	61.3	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°	1259.4	29.3
0°-40°	2039.9	47.5
0°-60°	3494.0	81.3
0°-90°	4297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4297.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1634	1634	1634	1634	1634	
5°	1628	1627	1626	1631	1634	154
15°	1552	1556	1563	1579	1585	438
25°	1410	1419	1439	1463	1471	648
35°	1212	1226	1251	1272	1280	758
45°	980	993	1016	1034	1038	756
55°	732	740	756	769	767	655
65°	484	485	491	494	494	478
75°	245	242	243	237	236	260
85°	52	52	51	46	45	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1634.2	1634.2	1634.2	1634.2	1634.2
2.5°	1635.7	1632.8	1628.4	1634.2	1637.1
5°	1628.4	1627.0	1625.5	1631.3	1634.2
7.5°	1615.4	1616.9	1615.4	1624.1	1627.0
10°	1599.5	1600.9	1602.4	1612.5	1615.4
12.5°	1579.2	1580.7	1585.0	1598.0	1602.4
15°	1551.7	1556.1	1563.3	1579.2	1585.0
17.5°	1522.8	1528.6	1538.7	1557.5	1563.3
20°	1488.0	1495.3	1509.7	1530.0	1537.2
22.5°	1448.9	1456.2	1476.5	1498.2	1505.4
25°	1409.9	1418.6	1438.8	1463.4	1470.7
27.5°	1363.5	1375.1	1396.8	1421.4	1427.2
30°	1315.8	1325.9	1352.0	1375.1	1385.3
32.5°	1268.0	1278.1	1302.8	1325.9	1333.1
35°	1211.6	1226.0	1250.6	1272.4	1279.6
37.5°	1156.6	1169.6	1195.6	1217.3	1224.6
40°	1098.7	1110.2	1137.7	1158.0	1163.8
42.5°	1040.8	1052.3	1079.8	1095.8	1101.5
45°	980.0	993.0	1016.1	1033.5	1037.9
47.5°	919.2	929.3	951.0	966.9	972.7
50°	856.9	867.1	888.8	901.8	904.7
52.5°	794.7	801.9	822.2	833.8	838.1
55°	732.4	739.7	755.6	768.6	767.2
57.5°	673.1	676.0	691.9	700.6	700.6
60°	606.5	609.4	622.4	628.2	629.7
62.5°	544.3	548.6	558.7	560.2	560.2
65°	483.5	484.9	490.7	493.6	493.6
67.5°	422.7	421.2	427.0	427.0	425.6
70°	359.0	361.9	363.3	360.4	359.0
72.5°	301.1	299.6	299.6	298.2	298.2
75°	244.6	241.7	243.2	237.4	235.9
77.5°	192.5	188.2	186.7	183.8	180.9
80°	139.0	139.0	137.5	134.6	133.2
82.5°	92.6	92.6	91.2	88.3	85.4
85°	52.1	52.1	50.7	46.3	44.9
87.5°	17.4	17.4	17.4	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)