

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: P297005

Luminaire Tested: **D3X-WG-45L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297005  
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-45L83050-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: 4276.0 lumens  
Efficiency: N/A  
Efficacy: 135.7 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

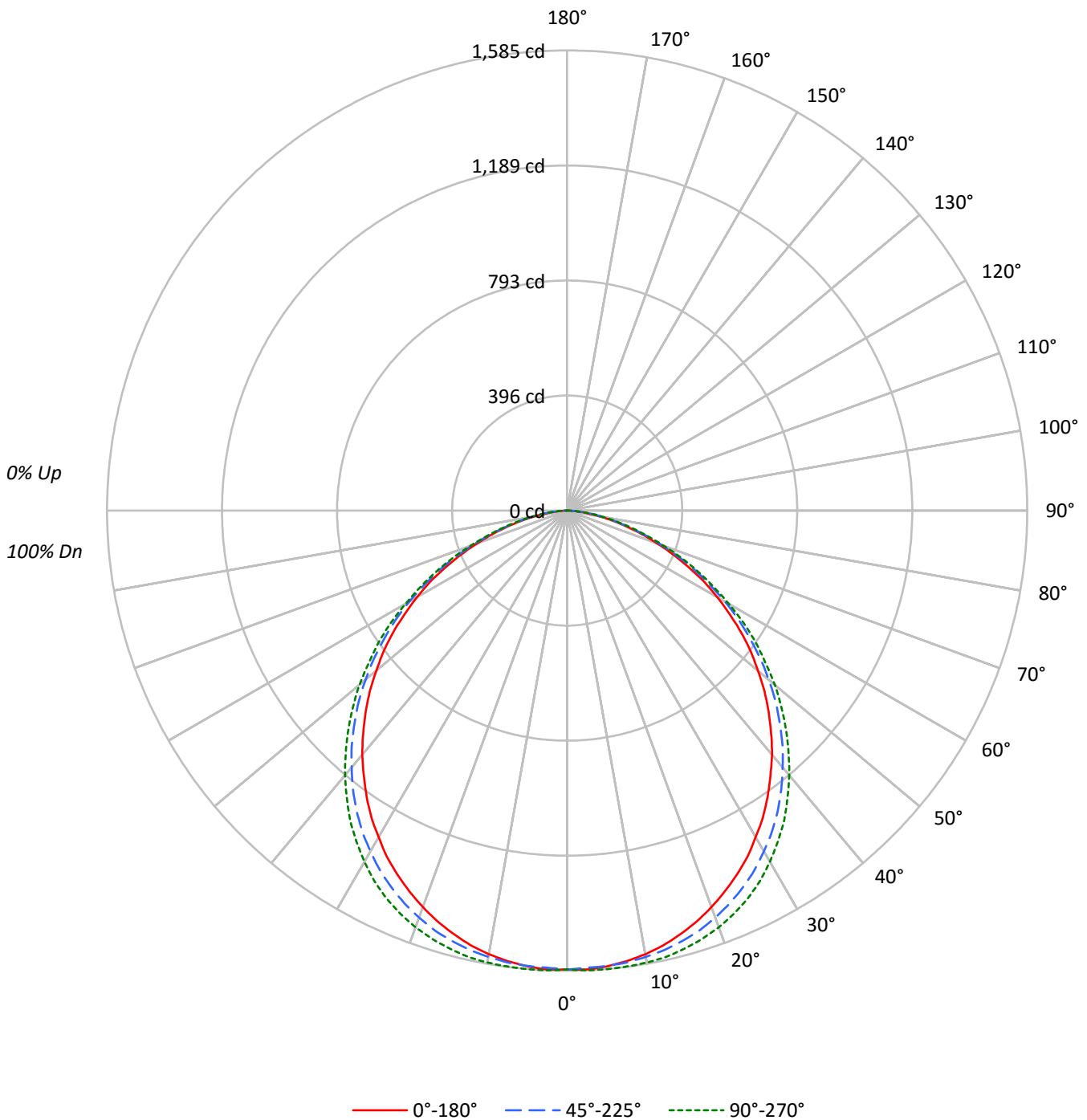
Input Watts (W): 31.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				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°	2127	2127	2127
5°	2129	2127	2141
10°	2120	2132	2160
15°	2104	2138	2176
20°	2081	2136	2187
25°	2053	2126	2188
30°	2018	2106	2170
35°	1977	2076	2141
40°	1929	2028	2090
45°	1868	1970	2029
50°	1796	1898	1956
55°	1718	1804	1861
60°	1608	1690	1731
65°	1468	1546	1585
70°	1290	1356	1392
75°	1091	1147	1186
80°	866	949	973
85°	591	710	685



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.2	3.5
10°-20°	433.6	10.1
20°-30°	659.0	15.4
30°-40°	786.3	18.4
40°-50°	794.2	18.6
50°-60°	684.2	16.0
60°-70°	477.0	11.2
70°-80°	236.4	5.5
80°-90°	55.1	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°	1242.8	29.1
0°-40°	2029.1	47.5
0°-60°	3507.5	82.0
0°-90°	4276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4276.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1581	1581	1581	1581	1581	
5°	1576	1575	1575	1582	1585	150
15°	1510	1518	1535	1555	1562	426
25°	1383	1402	1432	1461	1474	637
35°	1204	1224	1264	1293	1304	752
45°	982	1003	1036	1060	1066	757
55°	732	748	769	787	793	653
65°	461	470	486	490	498	458
75°	210	213	221	225	228	226
85°	38	46	46	43	44	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1580.7	1580.7	1580.7	1580.7	1580.7
2.5°	1582.3	1579.2	1576.2	1582.3	1585.3
5°	1576.2	1574.6	1574.6	1582.3	1585.3
7.5°	1565.4	1565.4	1570.0	1580.7	1583.8
10°	1551.6	1554.7	1560.8	1576.2	1580.7
12.5°	1533.3	1539.4	1550.1	1568.5	1574.6
15°	1510.3	1517.9	1534.8	1554.7	1562.4
17.5°	1484.2	1495.0	1516.4	1539.4	1547.0
20°	1453.6	1467.4	1491.9	1517.9	1527.1
22.5°	1419.9	1436.8	1464.3	1491.9	1502.6
25°	1383.2	1401.5	1432.2	1461.3	1473.5
27.5°	1344.9	1363.2	1396.9	1426.0	1438.3
30°	1298.9	1320.4	1355.6	1386.2	1396.9
32.5°	1254.5	1275.9	1312.7	1340.3	1351.0
35°	1203.9	1223.9	1263.7	1292.8	1303.5
37.5°	1150.3	1173.3	1211.6	1237.6	1246.8
40°	1098.3	1118.2	1154.9	1181.0	1190.2
42.5°	1040.0	1061.5	1098.3	1121.2	1128.9
45°	981.8	1003.3	1035.5	1060.0	1066.1
47.5°	922.1	942.0	974.2	994.1	1000.2
50°	857.8	876.2	906.8	926.7	934.4
52.5°	796.5	813.3	839.4	856.2	860.8
55°	732.2	747.5	768.9	787.3	793.4
57.5°	663.2	680.1	700.0	715.3	719.9
60°	597.4	611.2	628.0	641.8	643.3
62.5°	533.0	539.2	554.5	566.7	568.3
65°	461.1	470.2	485.6	490.2	497.8
67.5°	395.2	401.3	413.6	419.7	425.8
70°	327.8	332.4	344.6	352.3	353.8
72.5°	269.6	271.1	280.3	286.4	288.0
75°	209.8	212.9	220.6	225.2	228.2
77.5°	159.3	162.4	168.5	171.6	171.6
80°	111.8	116.4	122.5	124.1	125.6
82.5°	72.0	78.1	82.7	84.2	81.2
85°	38.3	46.0	46.0	42.9	44.4
87.5°	13.8	16.8	18.4	19.9	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)