

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: P297276

Luminaire Tested: **D3X-WO-36L83050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297276  
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-36L83050-LD5-UNV-24-T1-W2A-4000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3857.0 lumens  
Efficiency: N/A  
Efficacy: 149.5 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

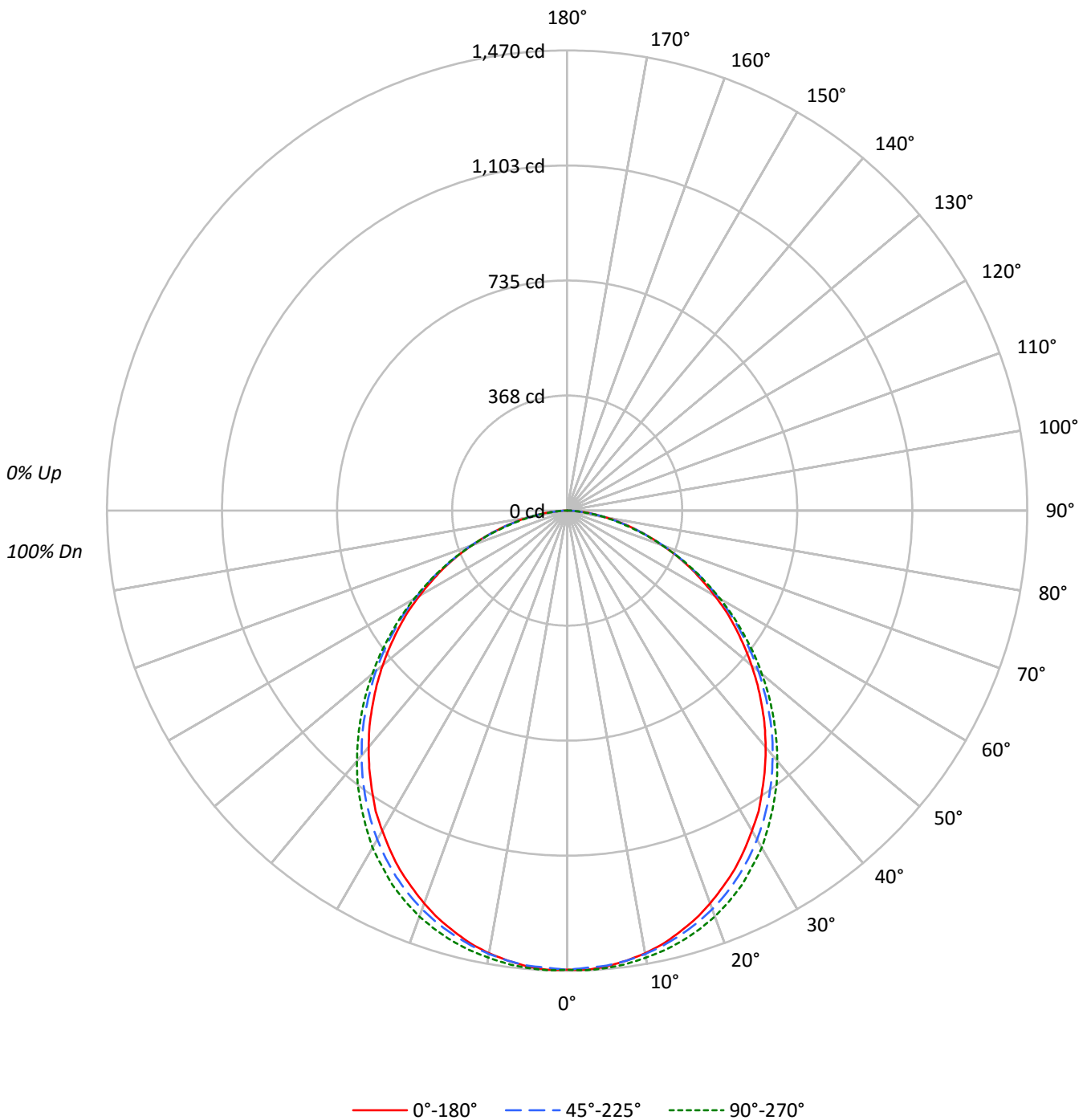
Input Watts (W): 25.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1974	1974	1974
5°	1974	1971	1981
10°	1962	1965	1981
15°	1940	1955	1982
20°	1913	1940	1976
25°	1879	1917	1960
30°	1835	1885	1932
35°	1786	1844	1887
40°	1732	1794	1835
45°	1674	1736	1773
50°	1610	1670	1700
55°	1542	1591	1615
60°	1465	1503	1521
65°	1382	1402	1411
70°	1268	1283	1268
75°	1142	1135	1101
80°	966	956	926
85°	722	702	622



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.9	3.6
10°-20°	396.7	10.3
20°-30°	594.9	15.4
30°-40°	700.5	18.2
40°-50°	700.7	18.2
50°-60°	604.6	15.7
60°-70°	435.0	11.3
70°-80°	230.7	6.0
80°-90°	55.0	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°	1130.5	29.3
0°-40°	1831.0	47.5
0°-60°	3136.2	81.3
0°-90°	3857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3857.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1467	1467	1467	1467	1467	
5°	1462	1460	1459	1464	1467	139
15°	1393	1397	1403	1418	1423	393
25°	1266	1273	1292	1314	1320	582
35°	1088	1100	1123	1142	1149	680
45°	880	891	912	928	932	679
55°	657	664	678	690	689	588
65°	434	435	440	443	443	429
75°	220	217	218	213	212	234
85°	47	47	46	42	40	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1466.9	1466.9	1466.9	1466.9	1466.9
2.5°	1468.2	1465.6	1461.7	1466.9	1469.5
5°	1461.7	1460.4	1459.1	1464.3	1466.9
7.5°	1450.0	1451.3	1450.0	1457.8	1460.4
10°	1435.7	1437.0	1438.3	1447.4	1450.0
12.5°	1417.5	1418.8	1422.7	1434.4	1438.3
15°	1392.8	1396.7	1403.2	1417.5	1422.7
17.5°	1366.8	1372.0	1381.1	1398.0	1403.2
20°	1335.7	1342.2	1355.2	1373.3	1379.8
22.5°	1300.6	1307.1	1325.3	1344.8	1351.3
25°	1265.5	1273.3	1291.5	1313.6	1320.1
27.5°	1223.9	1234.3	1253.8	1275.9	1281.1
30°	1181.0	1190.1	1213.5	1234.3	1243.4
32.5°	1138.2	1147.3	1169.4	1190.1	1196.6
35°	1087.5	1100.5	1122.6	1142.1	1148.6
37.5°	1038.1	1049.8	1073.2	1092.7	1099.2
40°	986.2	996.5	1021.2	1039.4	1044.6
42.5°	934.2	944.6	969.3	983.6	988.8
45°	879.6	891.3	912.1	927.7	931.6
47.5°	825.0	834.1	853.6	867.9	873.1
50°	769.2	778.3	797.8	809.5	812.1
52.5°	713.3	719.8	738.0	748.4	752.3
55°	657.4	663.9	678.2	689.9	688.6
57.5°	604.2	606.8	621.1	628.9	628.9
60°	544.4	547.0	558.7	563.9	565.2
62.5°	488.5	492.4	501.5	502.8	502.8
65°	434.0	435.3	440.5	443.1	443.1
67.5°	379.4	378.1	383.3	383.3	382.0
70°	322.2	324.8	326.1	323.5	322.2
72.5°	270.3	269.0	269.0	267.7	267.7
75°	219.6	217.0	218.3	213.1	211.8
77.5°	172.8	168.9	167.6	165.0	162.4
80°	124.7	124.7	123.4	120.8	119.5
82.5°	83.2	83.2	81.9	79.3	76.7
85°	46.8	46.8	45.5	41.6	40.3
87.5°	15.6	15.6	15.6	15.6	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)