

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: P297850

Luminaire Tested: **D3X-WO-40L83050-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297850  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-40L83050-LD5-UNV-14-T1-W2A-3500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4057.0 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

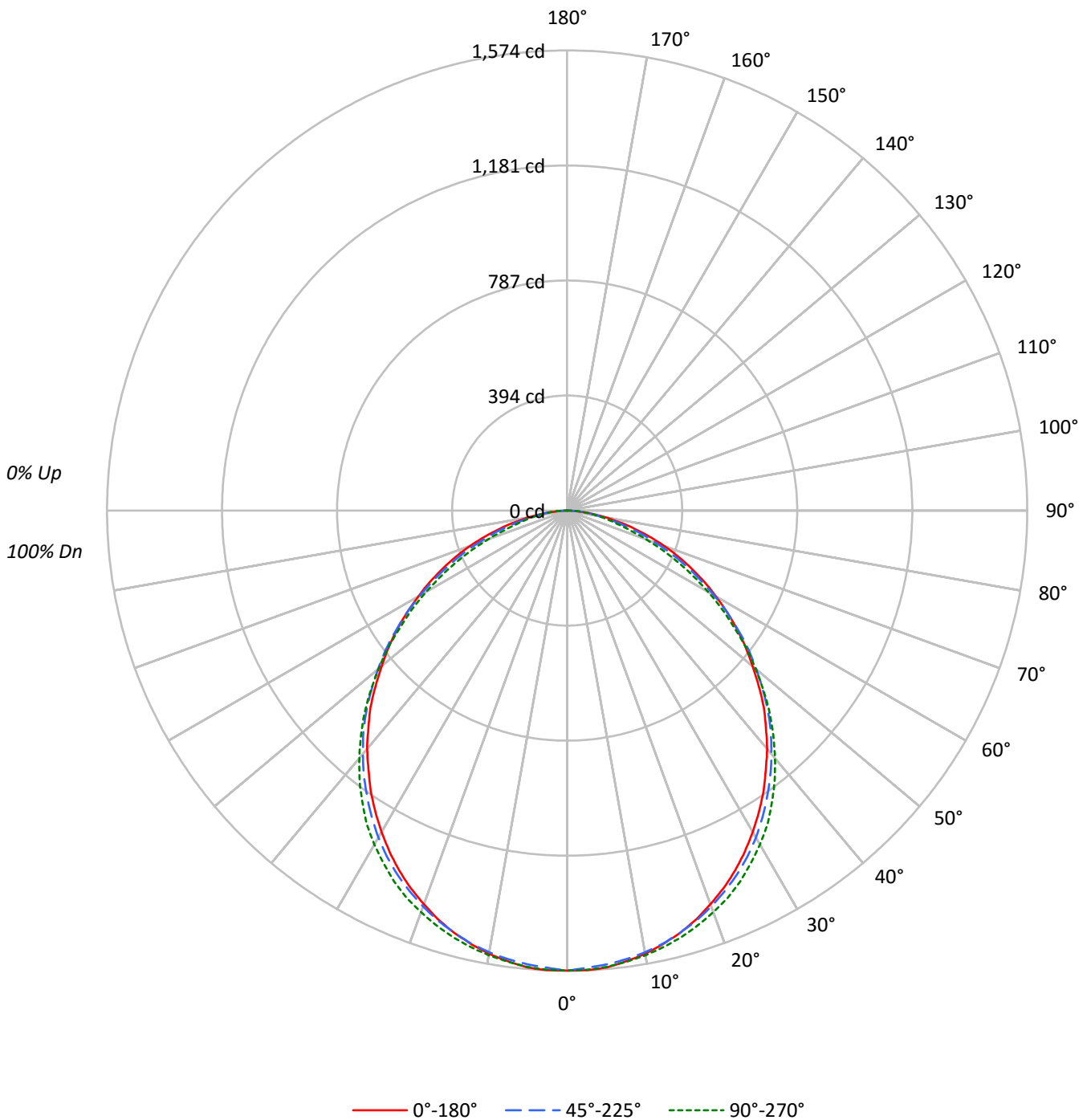
Input Watts (W): 39.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4235	4235	4235
5°	4237	4209	4232
10°	4206	4192	4220
15°	4164	4164	4206
20°	4103	4127	4186
25°	4034	4080	4157
30°	3944	4013	4098
35°	3847	3921	4011
40°	3739	3818	3884
45°	3619	3698	3731
50°	3463	3535	3521
55°	3332	3356	3268
60°	3166	3119	2999
65°	2989	2869	2672
70°	2773	2544	2260
75°	2467	2181	1860
80°	2052	1785	1733
85°	1488	1593	1593



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.5	3.7
10°-20°	423.0	10.4
20°-30°	634.0	15.6
30°-40°	747.0	18.4
40°-50°	745.0	18.4
50°-60°	633.7	15.6
60°-70°	442.3	10.9
70°-80°	224.8	5.5
80°-90°	58.7	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°	1205.5	29.7
0°-40°	1952.5	48.1
0°-60°	3331.2	82.1
0°-90°	4057.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4057.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1574	1574	1574	1574	1574	
5°	1568	1565	1558	1567	1567	149
15°	1494	1494	1494	1508	1510	421
25°	1359	1360	1374	1395	1400	625
35°	1171	1173	1194	1218	1221	732
45°	951	954	972	978	980	732
55°	710	710	715	705	696	635
65°	470	463	451	426	420	466
75°	237	229	210	184	179	252
85°	48	50	52	52	52	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1573.6	1573.6	1573.6	1573.6	1573.6
2.5°	1573.6	1571.8	1565.0	1571.8	1571.8
5°	1568.4	1565.0	1558.1	1566.7	1566.7
7.5°	1554.7	1552.9	1547.8	1556.4	1556.4
10°	1539.2	1537.5	1534.0	1544.3	1544.3
12.5°	1518.5	1518.5	1516.8	1527.1	1528.9
15°	1494.5	1494.5	1494.5	1508.2	1509.9
17.5°	1466.9	1465.2	1470.4	1485.9	1487.6
20°	1432.6	1434.3	1441.1	1458.3	1461.8
22.5°	1398.2	1399.9	1408.5	1429.1	1434.3
25°	1358.6	1360.3	1374.1	1394.7	1399.9
27.5°	1315.6	1319.0	1334.5	1356.9	1360.3
30°	1269.2	1272.6	1291.5	1313.9	1319.0
32.5°	1221.0	1226.2	1243.4	1267.5	1274.3
35°	1171.1	1172.9	1193.5	1217.6	1221.0
37.5°	1116.1	1121.3	1141.9	1162.5	1166.0
40°	1064.5	1068.0	1086.9	1104.1	1105.8
42.5°	1006.1	1011.2	1031.8	1043.9	1043.9
45°	951.0	954.5	971.7	978.5	980.3
47.5°	889.1	892.5	908.0	911.5	911.5
50°	827.2	835.8	844.4	844.4	841.0
52.5°	770.4	772.2	782.5	775.6	772.2
55°	710.3	710.3	715.4	705.1	696.5
57.5°	650.1	650.1	650.1	636.3	629.4
60°	588.2	586.4	579.6	562.4	557.2
62.5°	529.7	524.5	514.2	497.0	486.7
65°	469.5	462.6	450.6	426.5	419.6
67.5°	412.7	400.7	386.9	364.6	352.5
70°	352.5	342.2	323.3	297.5	287.2
72.5°	294.1	283.8	268.3	242.5	227.0
75°	237.3	228.7	209.8	184.0	178.9
77.5°	182.3	177.1	158.2	146.2	144.5
80°	132.4	130.7	115.2	111.8	111.8
82.5°	87.7	86.0	80.8	80.8	79.1
85°	48.2	49.9	51.6	51.6	51.6
87.5°	17.2	20.6	24.1	24.1	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)