

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: P297846

Luminaire Tested: **D3X-WO-35L83050-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297846  
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-35L83050-LD5-UNV-14-T1-W2A-4000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3743.0 lumens  
Efficiency: N/A  
Efficacy: 109.1 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

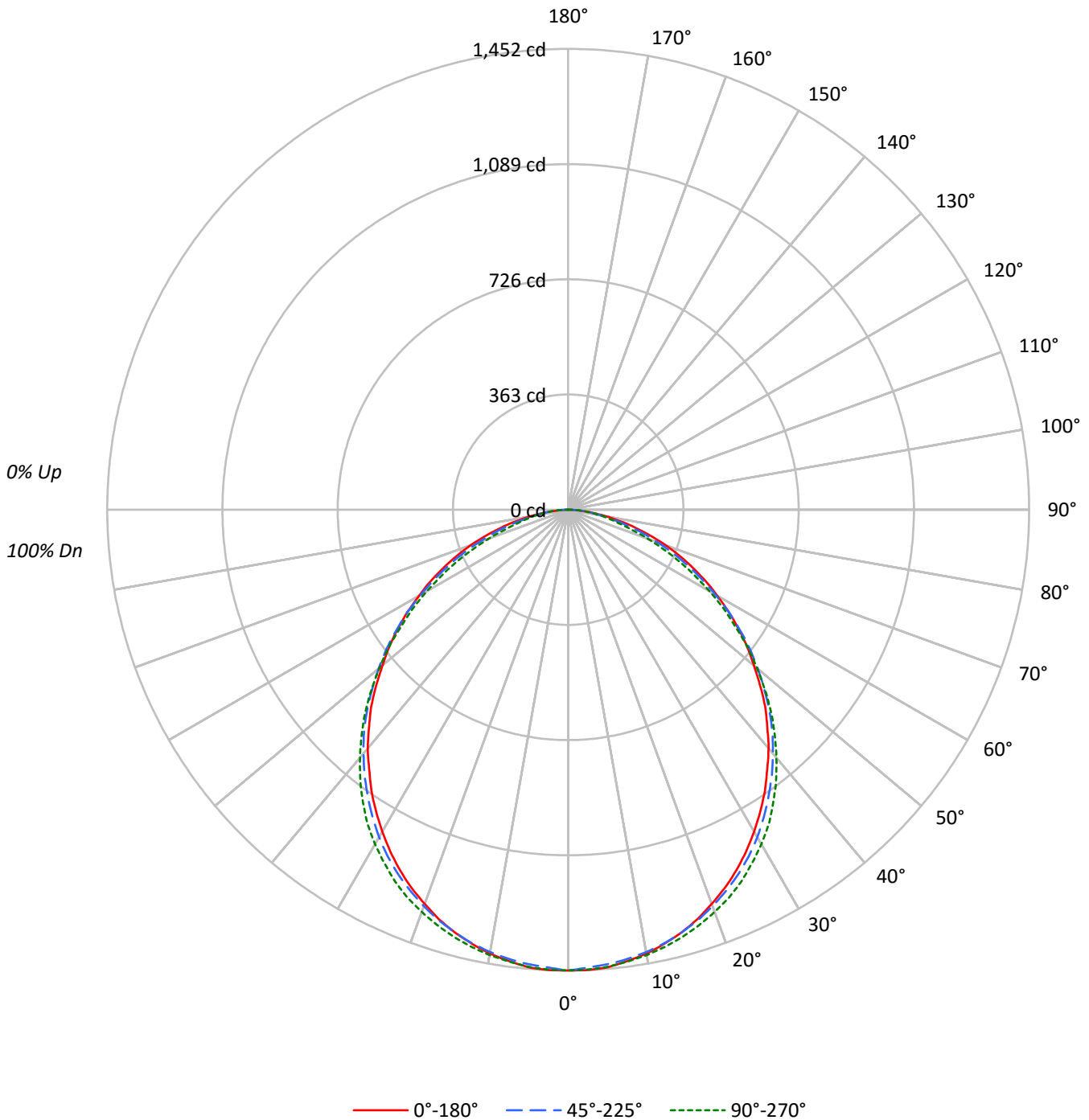
Input Watts (W): 34.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3907	3907	3907
5°	3909	3883	3904
10°	3880	3867	3893
15°	3841	3841	3881
20°	3785	3808	3862
25°	3722	3764	3835
30°	3638	3703	3782
35°	3550	3617	3701
40°	3450	3523	3584
45°	3339	3412	3442
50°	3195	3261	3248
55°	3074	3096	3015
60°	2920	2878	2767
65°	2758	2647	2465
70°	2559	2347	2085
75°	2277	2013	1716
80°	1894	1647	1598
85°	1371	1470	1470



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.0	3.7
10°-20°	390.3	10.4
20°-30°	584.9	15.6
30°-40°	689.1	18.4
40°-50°	687.3	18.4
50°-60°	584.7	15.6
60°-70°	408.0	10.9
70°-80°	207.4	5.5
80°-90°	54.2	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°	1112.2	29.7
0°-40°	1801.4	48.1
0°-60°	3073.4	82.1
0°-90°	3743.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3743.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1452	1452	1452	1452	1452	
5°	1447	1444	1438	1445	1445	137
15°	1379	1379	1379	1392	1393	389
25°	1253	1255	1268	1287	1292	577
35°	1080	1082	1101	1123	1126	675
45°	877	881	896	903	904	675
55°	655	655	660	650	643	585
65°	433	427	416	394	387	430
75°	219	211	194	170	165	233
85°	44	46	48	48	48	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1451.8	1451.8	1451.8	1451.8	1451.8
2.5°	1451.8	1450.2	1443.8	1450.2	1450.2
5°	1447.0	1443.8	1437.5	1445.4	1445.4
7.5°	1434.3	1432.7	1428.0	1435.9	1435.9
10°	1420.0	1418.5	1415.3	1424.8	1424.8
12.5°	1401.0	1401.0	1399.4	1408.9	1410.5
15°	1378.8	1378.8	1378.8	1391.5	1393.1
17.5°	1353.4	1351.8	1356.6	1370.9	1372.4
20°	1321.7	1323.3	1329.6	1345.5	1348.6
22.5°	1289.9	1291.5	1299.5	1318.5	1323.3
25°	1253.4	1255.0	1267.7	1286.8	1291.5
27.5°	1213.8	1217.0	1231.2	1251.9	1255.0
30°	1170.9	1174.1	1191.6	1212.2	1217.0
32.5°	1126.5	1131.3	1147.1	1169.4	1175.7
35°	1080.5	1082.1	1101.1	1123.3	1126.5
37.5°	1029.7	1034.5	1053.5	1072.6	1075.7
40°	982.1	985.3	1002.8	1018.6	1020.2
42.5°	928.2	932.9	952.0	963.1	963.1
45°	877.4	880.6	896.5	902.8	904.4
47.5°	820.3	823.5	837.7	840.9	840.9
50°	763.2	771.1	779.0	779.0	775.9
52.5°	710.8	712.4	721.9	715.6	712.4
55°	655.3	655.3	660.0	650.5	642.6
57.5°	599.8	599.8	599.8	587.1	580.7
60°	542.6	541.0	534.7	518.8	514.1
62.5°	488.7	483.9	474.4	458.5	449.0
65°	433.2	426.8	415.7	393.5	387.1
67.5°	380.8	369.7	357.0	336.4	325.3
70°	325.3	315.7	298.3	274.5	265.0
72.5°	271.3	261.8	247.5	223.7	209.4
75°	219.0	211.0	193.6	169.8	165.0
77.5°	168.2	163.4	146.0	134.9	133.3
80°	122.2	120.6	106.3	103.1	103.1
82.5°	80.9	79.3	74.6	74.6	73.0
85°	44.4	46.0	47.6	47.6	47.6
87.5°	15.9	19.0	22.2	22.2	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)