

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: P297987

Luminaire Tested: **D3X-WD-35L83050-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297987  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-35L83050-LD5-UNV-22-T1-W2A-4500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3472.0 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

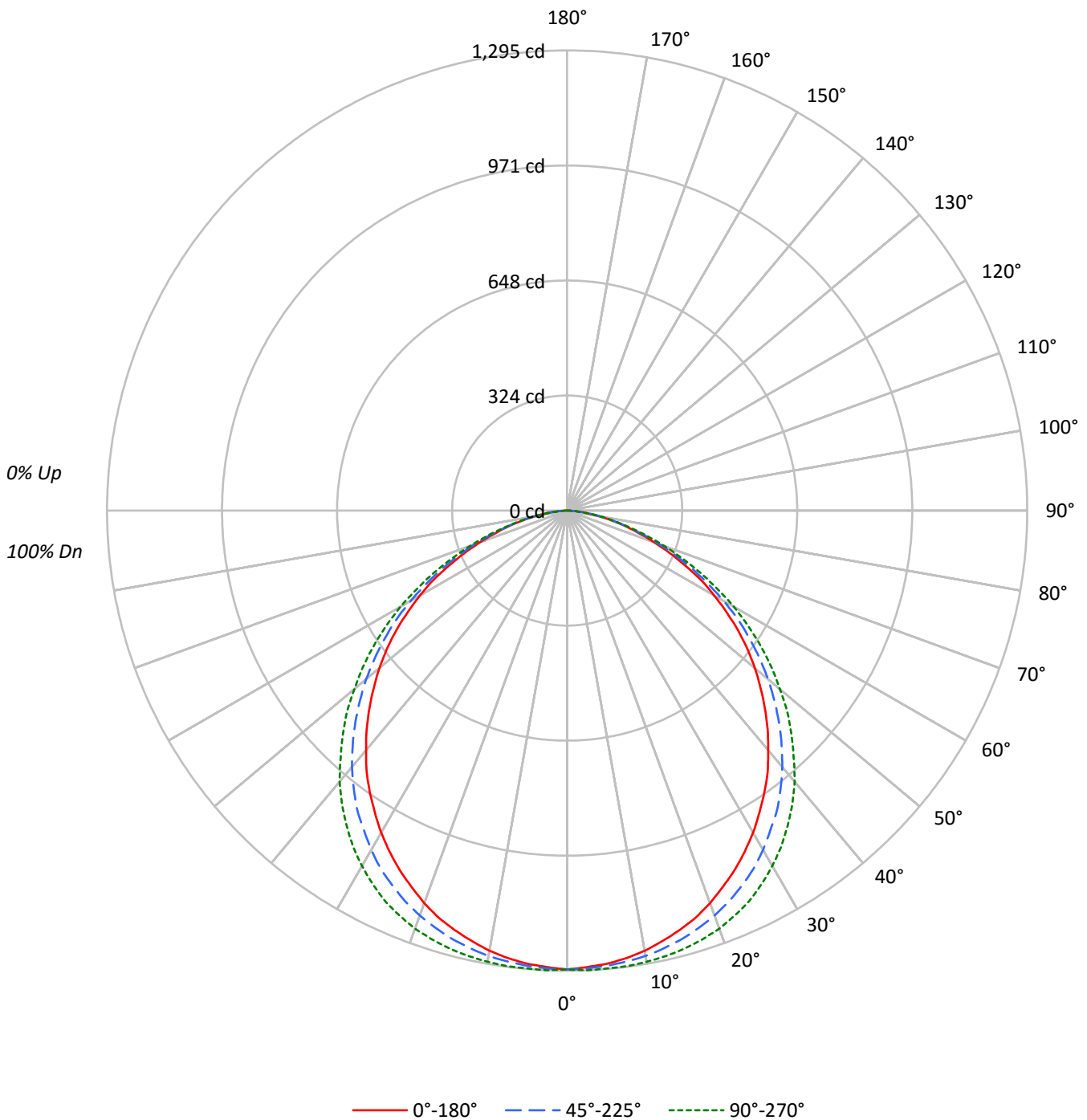
Input Watts (W): 29.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	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	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	48	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	31	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°	3475	3475	3475
5°	3458	3473	3493
10°	3437	3478	3524
15°	3405	3478	3556
20°	3366	3473	3586
25°	3313	3457	3601
30°	3252	3426	3589
35°	3180	3383	3555
40°	3092	3309	3499
45°	2994	3208	3400
50°	2887	3090	3270
55°	2753	2937	3121
60°	2575	2736	2917
65°	2332	2475	2630
70°	2058	2161	2279
75°	1769	1807	1885
80°	1420	1447	1477
85°	1037	923	923



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.4	3.5
10°-20°	352.5	10.2
20°-30°	536.2	15.4
30°-40°	641.5	18.5
40°-50°	648.5	18.7
50°-60°	558.1	16.1
60°-70°	385.3	11.1
70°-80°	186.8	5.4
80°-90°	40.5	1.2
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°	1011.1	29.1
0°-40°	1652.6	47.6
0°-60°	2859.3	82.4
0°-90°	3472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3472.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1291	1291	1291	1291	1291	
5°	1280	1282	1286	1291	1293	121
15°	1222	1230	1248	1267	1276	345
25°	1116	1129	1164	1200	1213	514
35°	968	985	1030	1067	1082	605
45°	787	802	843	878	893	607
55°	587	596	626	654	665	523
65°	366	372	389	406	413	365
75°	170	166	174	179	181	181
85°	34	34	30	30	30	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1291.4	1291.4	1291.4	1291.4	1291.4
2.5°	1285.8	1285.8	1289.5	1293.2	1295.1
5°	1280.2	1282.0	1285.8	1291.4	1293.2
7.5°	1270.8	1272.7	1280.2	1289.5	1293.2
10°	1257.7	1261.5	1272.7	1283.9	1289.5
12.5°	1240.9	1248.4	1261.5	1276.4	1283.9
15°	1222.2	1229.7	1248.4	1267.1	1276.4
17.5°	1201.7	1209.2	1231.6	1255.9	1265.2
20°	1175.5	1186.7	1212.9	1240.9	1252.1
22.5°	1145.6	1160.6	1190.5	1220.4	1233.4
25°	1115.7	1128.8	1164.3	1199.8	1212.9
27.5°	1082.1	1097.0	1136.3	1171.8	1184.9
30°	1046.6	1061.5	1102.6	1141.9	1155.0
32.5°	1007.3	1026.0	1065.2	1106.4	1121.3
35°	968.1	984.9	1029.7	1067.1	1082.1
37.5°	927.0	941.9	986.8	1026.0	1041.0
40°	880.2	897.1	941.9	981.1	996.1
42.5°	835.4	852.2	893.3	930.7	943.8
45°	786.8	801.7	842.9	878.4	893.3
47.5°	738.2	755.0	790.5	826.0	841.0
50°	689.6	702.7	738.2	771.8	781.2
52.5°	639.1	650.4	682.1	712.0	725.1
55°	586.8	596.2	626.1	654.1	665.3
57.5°	530.8	542.0	570.0	590.6	603.6
60°	478.4	484.0	508.3	528.9	542.0
62.5°	426.1	428.0	446.7	467.2	474.7
65°	366.3	371.9	388.7	405.5	413.0
67.5°	312.1	317.7	330.8	343.9	349.5
70°	261.6	261.6	274.7	284.1	289.7
72.5°	211.2	213.0	222.4	228.0	233.6
75°	170.1	166.3	173.8	179.4	181.3
77.5°	127.1	125.2	130.8	132.7	136.4
80°	91.6	91.6	93.4	95.3	95.3
82.5°	59.8	59.8	61.7	57.9	56.1
85°	33.6	33.6	29.9	29.9	29.9
87.5°	11.2	11.2	11.2	13.1	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)