

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: P297564

Luminaire Tested: **D3X-WD-35L83050-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297564  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)  
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-14-T1-W2A-3000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3199.0 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

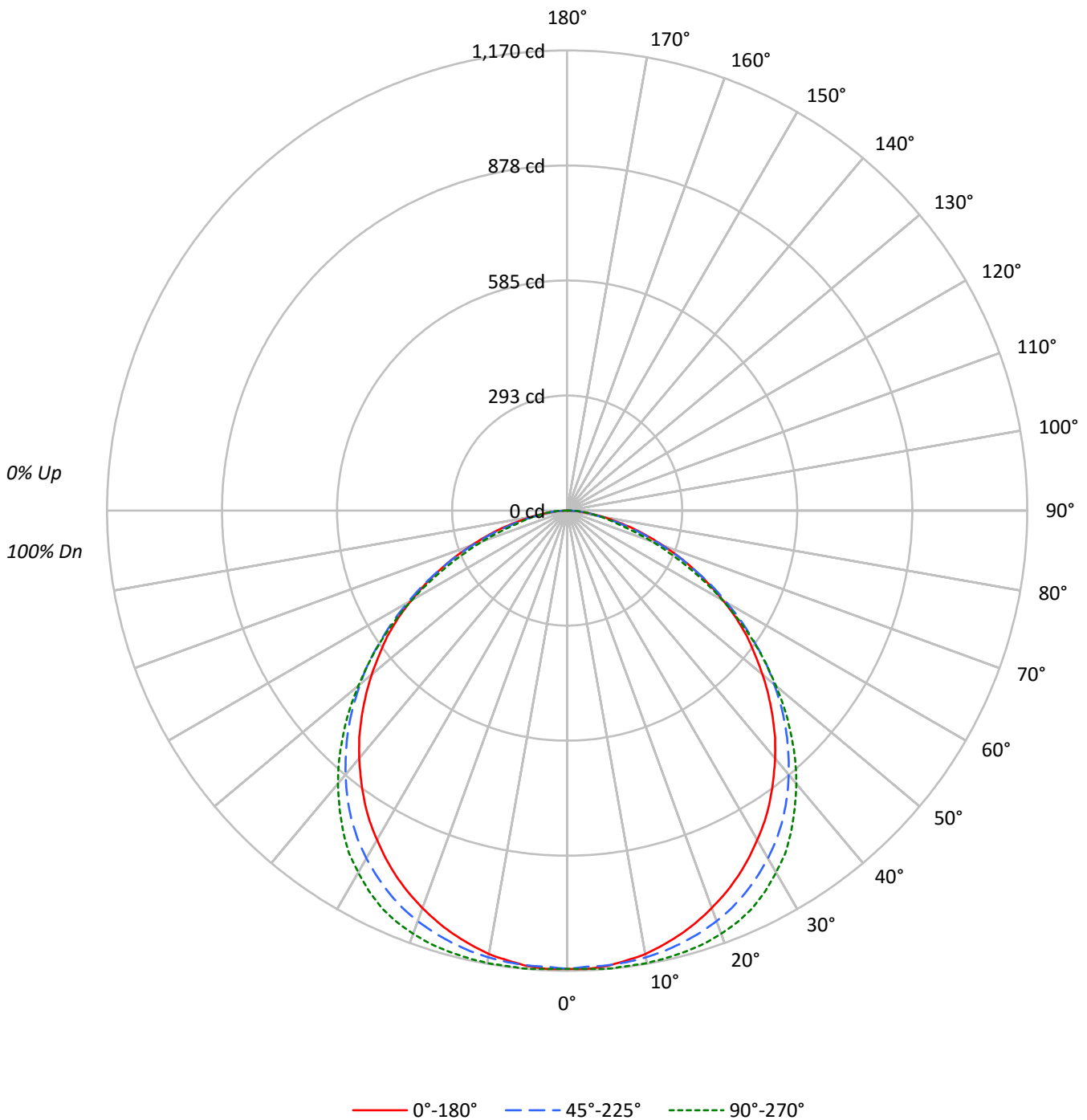
Input Watts (W): 33.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	96	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	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	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	25

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

	0°	45°	90°
0°	3136	3136	3136
5°	3140	3136	3159
10°	3129	3153	3192
15°	3107	3167	3234
20°	3079	3182	3279
25°	3048	3184	3311
30°	3004	3173	3301
35°	2955	3143	3265
40°	2889	3080	3185
45°	2810	2994	3065
50°	2714	2876	2900
55°	2619	2720	2707
60°	2467	2521	2460
65°	2273	2282	2155
70°	2034	1989	1809
75°	1766	1648	1395
80°	1416	1283	1283
85°	1013	1192	1235



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.8	3.5
10°-20°	321.7	10.1
20°-30°	493.9	15.4
30°-40°	594.8	18.6
40°-50°	601.1	18.8
50°-60°	512.7	16.0
60°-70°	351.0	11.0
70°-80°	169.4	5.3
80°-90°	43.7	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°	926.4	29.0
0°-40°	1521.2	47.6
0°-60°	2635.0	82.4
0°-90°	3199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3199.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1165	1165	1165	1165	1165	
5°	1162	1162	1161	1168	1170	110
15°	1115	1124	1137	1157	1161	315
25°	1027	1042	1072	1104	1115	473
35°	900	920	957	987	994	562
45°	738	758	787	805	805	569
55°	558	568	580	583	577	497
65°	357	361	358	346	338	354
75°	170	170	158	140	134	180
85°	33	36	39	40	40	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1165.2	1165.2	1165.2	1165.2	1165.2
2.5°	1166.7	1165.2	1160.9	1166.7	1166.7
5°	1162.4	1162.4	1160.9	1168.1	1169.5
7.5°	1153.8	1156.7	1158.1	1166.7	1168.1
10°	1145.2	1148.1	1153.8	1165.2	1168.1
12.5°	1131.0	1136.7	1146.7	1162.4	1165.2
15°	1115.2	1123.8	1136.7	1156.7	1160.9
17.5°	1096.7	1108.1	1125.2	1148.1	1155.2
20°	1075.3	1088.1	1111.0	1136.7	1145.2
22.5°	1052.4	1066.7	1093.8	1123.8	1132.4
25°	1026.7	1042.4	1072.4	1103.8	1115.2
27.5°	998.2	1015.3	1048.1	1081.0	1091.0
30°	966.7	985.3	1021.0	1053.8	1062.4
32.5°	935.3	953.9	991.0	1022.4	1032.4
35°	899.6	919.6	956.7	986.7	993.9
37.5°	861.1	881.1	918.2	948.2	951.0
40°	822.5	842.5	876.8	903.9	906.8
42.5°	782.5	801.1	832.5	855.4	858.2
45°	738.3	758.3	786.8	805.4	805.4
47.5°	694.0	714.0	738.3	751.1	751.1
50°	648.3	666.9	686.9	694.0	692.6
52.5°	602.6	619.7	636.9	638.3	635.4
55°	558.3	568.3	579.8	582.6	576.9
57.5°	509.8	518.4	525.5	521.2	516.9
60°	458.4	466.9	468.4	461.2	457.0
62.5°	408.4	415.5	415.5	404.1	397.0
65°	357.0	361.3	358.4	345.6	338.4
67.5°	308.4	311.3	305.6	292.7	281.3
70°	258.5	259.9	252.8	237.0	229.9
72.5°	212.8	214.2	205.6	187.1	178.5
75°	169.9	169.9	158.5	139.9	134.2
77.5°	127.1	131.4	118.5	108.5	108.5
80°	91.4	95.7	82.8	84.3	82.8
82.5°	60.0	64.3	60.0	60.0	60.0
85°	32.8	35.7	38.6	40.0	40.0
87.5°	10.0	17.1	18.6	20.0	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)