

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: P296899

Luminaire Tested: **D3X-WD-31L92765-LD5-UNV-24-T1-W2A-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296899  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-31L92765-LD5-UNV-24-T1-W2A-2700K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2280.0 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

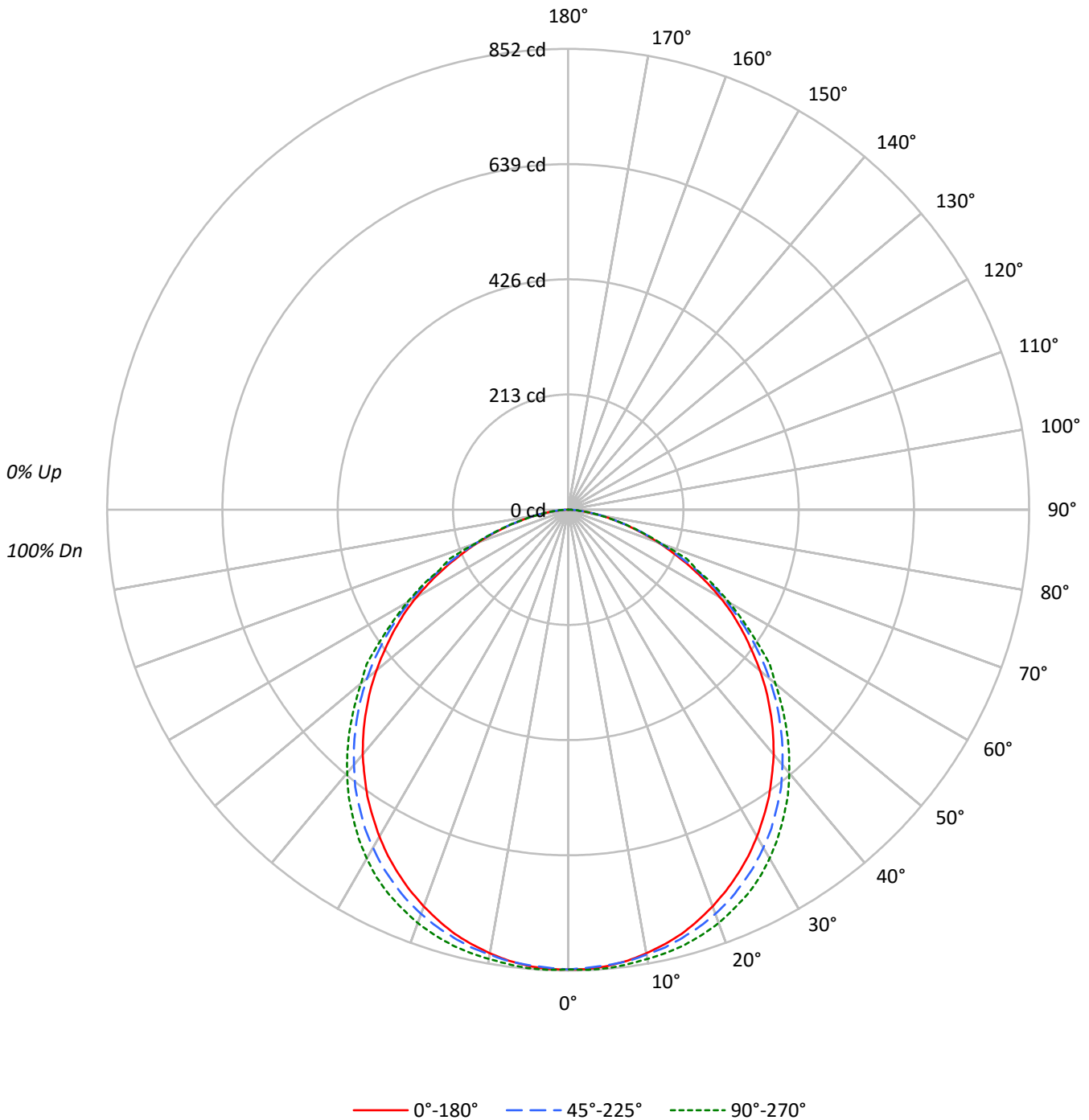
Input Watts (W): 21.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	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	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	28	38	32	27	37	32	27	26

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

	0°	45°	90°
0°	1144	1144	1144
5°	1144	1141	1149
10°	1138	1141	1152
15°	1130	1141	1160
20°	1117	1139	1164
25°	1103	1132	1165
30°	1084	1121	1157
35°	1063	1104	1139
40°	1037	1082	1116
45°	1006	1052	1085
50°	969	1015	1046
55°	925	967	996
60°	872	905	927
65°	792	818	833
70°	695	711	721
75°	587	595	599
80°	469	476	463
85°	316	329	316



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.6	3.5
10°-20°	231.6	10.2
20°-30°	351.5	15.4
30°-40°	419.6	18.4
40°-50°	424.8	18.6
50°-60°	367.2	16.1
60°-70°	254.5	11.2
70°-80°	123.1	5.4
80°-90°	27.1	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°	663.7	29.1
0°-40°	1083.3	47.5
0°-60°	1875.3	82.2
0°-90°	2280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2280.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	850	850	850	850	850	
5°	847	846	845	849	851	80
15°	812	813	819	829	833	229
25°	743	748	762	778	784	342
35°	647	653	672	690	694	404
45°	528	536	553	567	570	408
55°	394	398	412	430	425	352
65°	249	251	257	261	262	246
75°	113	114	114	114	115	121
85°	20	22	21	20	20	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	850.0	850.0	850.0	850.0	850.0
2.5°	850.0	849.1	847.5	850.0	851.6
5°	846.7	845.9	845.1	849.1	850.8
7.5°	841.0	841.0	841.8	845.9	847.5
10°	832.8	833.6	835.2	841.8	843.4
12.5°	823.0	824.6	828.7	836.1	839.3
15°	811.5	813.2	818.9	828.7	832.8
17.5°	796.8	800.1	808.2	819.7	823.8
20°	780.4	784.5	795.2	808.2	813.2
22.5°	762.4	766.5	780.4	794.3	799.2
25°	742.8	747.7	762.4	778.0	784.5
27.5°	721.5	727.3	743.6	760.0	766.5
30°	697.8	704.4	721.5	738.7	744.4
32.5°	672.4	679.0	698.6	715.0	720.7
35°	647.1	652.8	672.4	689.6	693.7
37.5°	618.5	625.0	646.3	661.0	666.7
40°	590.6	597.2	616.0	630.7	635.6
42.5°	560.4	566.9	585.7	599.6	603.7
45°	528.5	535.8	553.0	566.9	570.2
47.5°	496.6	502.3	520.3	532.6	535.0
50°	463.0	468.8	485.1	497.4	499.8
52.5°	427.8	436.8	449.9	458.9	469.6
55°	394.3	398.4	412.3	429.5	424.6
57.5°	360.8	363.2	374.7	382.0	383.7
60°	324.0	327.2	336.2	340.3	344.4
62.5°	285.5	288.0	298.6	302.7	304.3
65°	248.7	251.1	256.9	261.0	261.8
67.5°	211.1	213.5	218.4	221.7	236.4
70°	176.7	178.3	180.8	187.3	183.2
72.5°	144.0	144.8	147.3	147.3	148.1
75°	112.9	113.7	114.5	113.7	115.3
77.5°	84.3	85.9	86.7	85.9	85.1
80°	60.5	62.2	61.4	59.7	59.7
82.5°	39.3	40.1	39.3	38.4	38.4
85°	20.5	22.1	21.3	20.5	20.5
87.5°	7.4	8.2	9.0	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)