

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: P297595

Luminaire Tested: **D3X-WD-31L82765-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297595
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-31L82765-LD5-UNV-14-T1-W2A-4000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2957.0 lumens
Efficiency: N/A
Efficacy: 103.4 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

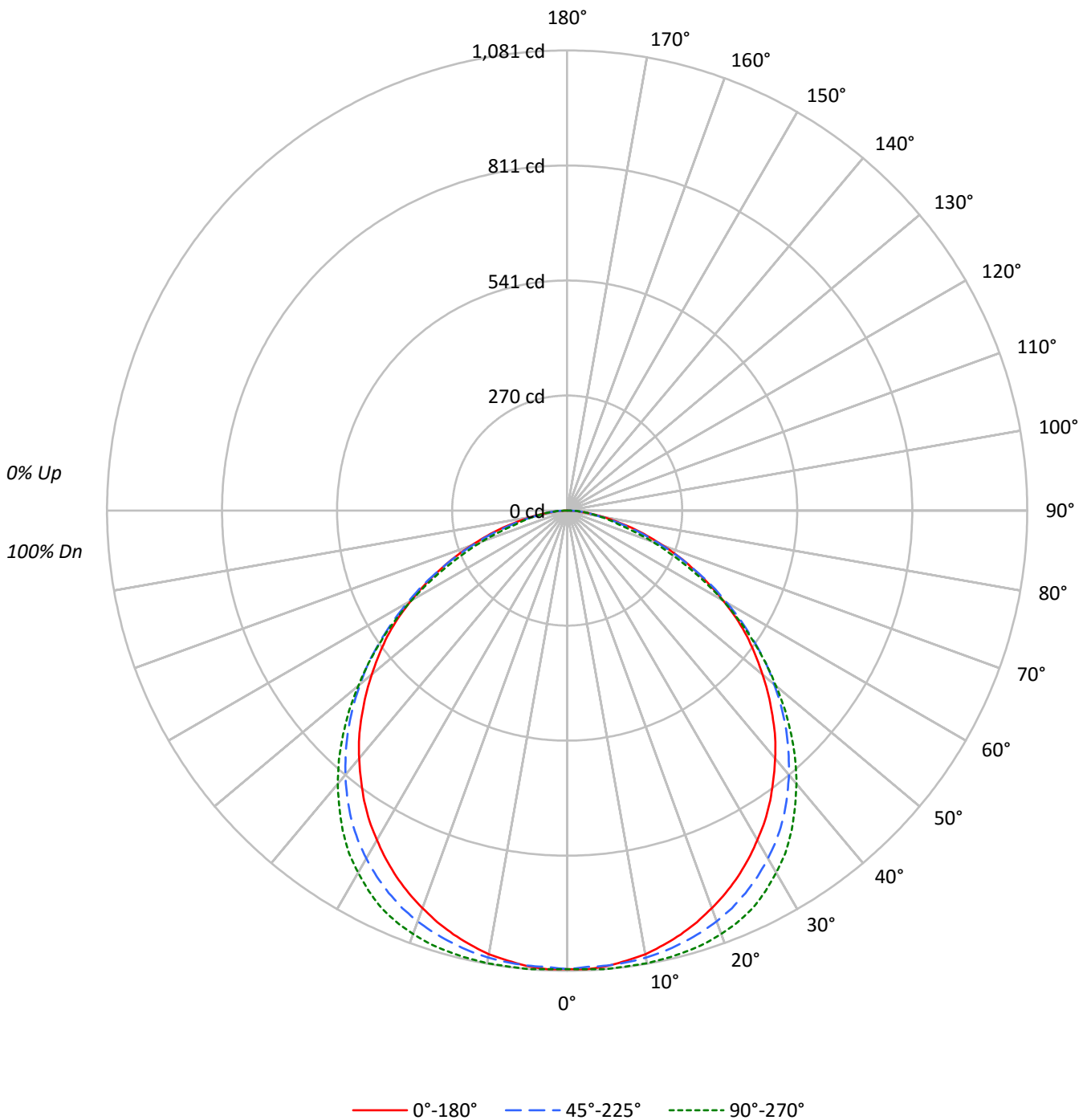
Input Watts (W): 28.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2898	2898	2898
5°	2902	2899	2920
10°	2893	2914	2950
15°	2872	2927	2990
20°	2846	2941	3031
25°	2818	2943	3061
30°	2777	2933	3051
35°	2732	2905	3018
40°	2671	2847	2944
45°	2597	2768	2833
50°	2509	2658	2680
55°	2421	2514	2502
60°	2280	2330	2273
65°	2101	2110	1992
70°	1880	1838	1672
75°	1633	1523	1290
80°	1309	1187	1187
85°	939	1099	1142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	3.5
10°-20°	297.3	10.1
20°-30°	456.5	15.4
30°-40°	549.8	18.6
40°-50°	555.6	18.8
50°-60°	473.9	16.0
60°-70°	324.4	11.0
70°-80°	156.6	5.3
80°-90°	40.4	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°	856.3	29.0
0°-40°	1406.1	47.6
0°-60°	2435.6	82.4
0°-90°	2957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2957.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1077	1077	1077	1077	1077	
5°	1074	1074	1073	1080	1081	102
15°	1031	1039	1051	1069	1073	291
25°	949	964	991	1020	1031	437
35°	832	850	884	912	919	520
45°	682	701	727	744	744	526
55°	516	525	536	538	533	460
65°	330	334	331	319	313	327
75°	157	157	146	129	124	167
85°	30	33	36	37	37	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1077.1	1077.1	1077.1	1077.1	1077.1
2.5°	1078.4	1077.1	1073.1	1078.4	1078.4
5°	1074.4	1074.4	1073.1	1079.7	1081.0
7.5°	1066.5	1069.2	1070.5	1078.4	1079.7
10°	1058.6	1061.2	1066.5	1077.1	1079.7
12.5°	1045.4	1050.7	1059.9	1074.4	1077.1
15°	1030.9	1038.8	1050.7	1069.2	1073.1
17.5°	1013.7	1024.3	1040.1	1061.2	1067.8
20°	993.9	1005.8	1026.9	1050.7	1058.6
22.5°	972.8	986.0	1011.1	1038.8	1046.7
25°	949.0	963.6	991.3	1020.3	1030.9
27.5°	922.6	938.5	968.8	999.2	1008.4
30°	893.6	910.8	943.8	974.1	982.0
32.5°	864.6	881.7	916.0	945.1	954.3
35°	831.6	850.0	884.4	912.1	918.7
37.5°	795.9	814.4	848.7	876.4	879.1
40°	760.3	778.8	810.4	835.5	838.2
42.5°	723.3	740.5	769.5	790.6	793.3
45°	682.4	700.9	727.3	744.4	744.4
47.5°	641.5	660.0	682.4	694.3	694.3
50°	599.3	616.4	634.9	641.5	640.2
52.5°	557.0	572.9	588.7	590.0	587.4
55°	516.1	525.3	535.9	538.5	533.3
57.5°	471.2	479.1	485.7	481.8	477.8
60°	423.7	431.6	432.9	426.3	422.4
62.5°	377.5	384.1	384.1	373.5	366.9
65°	330.0	333.9	331.3	319.4	312.8
67.5°	285.1	287.7	282.5	270.6	260.0
70°	238.9	240.2	233.6	219.1	212.5
72.5°	196.7	198.0	190.1	172.9	165.0
75°	157.1	157.1	146.5	129.4	124.1
77.5°	117.5	121.4	109.6	100.3	100.3
80°	84.5	88.4	76.6	77.9	76.6
82.5°	55.4	59.4	55.4	55.4	55.4
85°	30.4	33.0	35.6	37.0	37.0
87.5°	9.2	15.8	17.2	18.5	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)