

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: P297832

Luminaire Tested: **D3X-WO-23L83050-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297832
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-23L83050-LD5-UNV-14-T1-W2A-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2509.0 lumens
Efficiency: N/A
Efficacy: 115.6 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

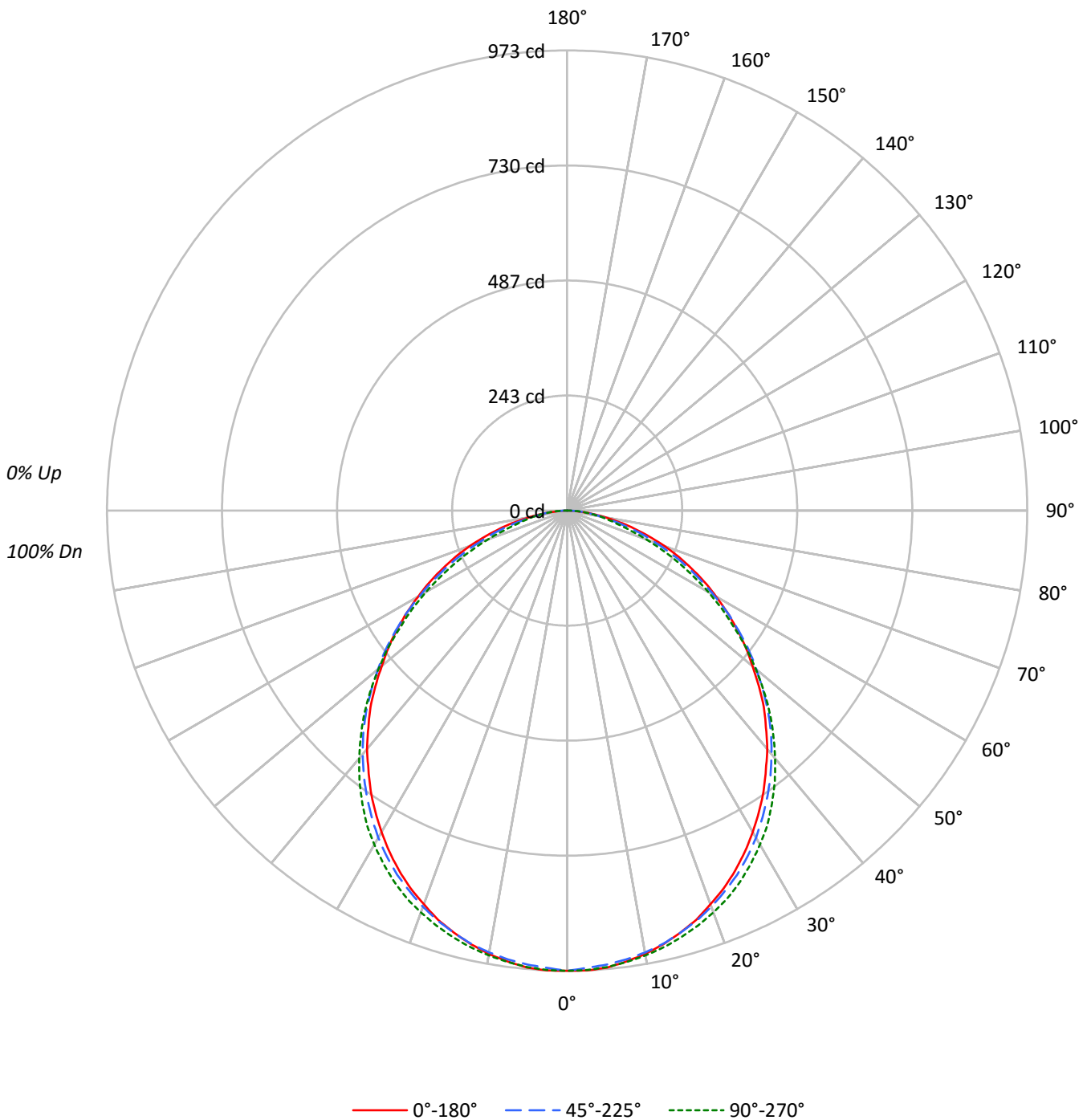
Input Watts (W): 21.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	48	45					45			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32					32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2619	2619	2619
5°	2620	2603	2617
10°	2601	2592	2610
15°	2575	2575	2601
20°	2537	2552	2589
25°	2495	2523	2570
30°	2439	2482	2535
35°	2379	2425	2481
40°	2312	2361	2402
45°	2238	2287	2307
50°	2142	2186	2177
55°	2061	2076	2021
60°	1957	1929	1855
65°	1849	1775	1652
70°	1715	1573	1397
75°	1526	1350	1150
80°	1269	1105	1071
85°	920	985	985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	3.7
10°-20°	261.6	10.4
20°-30°	392.1	15.6
30°-40°	461.9	18.4
40°-50°	460.8	18.4
50°-60°	391.9	15.6
60°-70°	273.5	10.9
70°-80°	139.0	5.5
80°-90°	36.3	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°	745.5	29.7
0°-40°	1207.5	48.1
0°-60°	2060.1	82.1
0°-90°	2509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	973	973	973	973	973	
5°	970	968	964	969	969	92
15°	924	924	924	933	934	261
25°	840	841	850	862	866	387
35°	724	725	738	753	755	452
45°	588	590	601	605	606	453
55°	439	439	442	436	431	392
65°	290	286	279	264	260	288
75°	147	142	130	114	111	156
85°	30	31	32	32	32	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	973.2	973.2	973.2	973.2	973.2
2.5°	973.2	972.1	967.8	972.1	972.1
5°	970.0	967.8	963.6	968.9	968.9
7.5°	961.5	960.4	957.2	962.5	962.5
10°	951.9	950.8	948.7	955.1	955.1
12.5°	939.1	939.1	938.1	944.4	945.5
15°	924.2	924.2	924.2	932.7	933.8
17.5°	907.2	906.2	909.3	918.9	920.0
20°	885.9	887.0	891.3	901.9	904.0
22.5°	864.7	865.7	871.1	883.8	887.0
25°	840.2	841.3	849.8	862.5	865.7
27.5°	813.6	815.7	825.3	839.1	841.3
30°	784.9	787.0	798.7	812.6	815.7
32.5°	755.1	758.3	769.0	783.8	788.1
35°	724.3	725.3	738.1	753.0	755.1
37.5°	690.2	693.4	706.2	719.0	721.1
40°	658.3	660.5	672.2	682.8	683.9
42.5°	622.2	625.4	638.1	645.6	645.6
45°	588.1	590.3	600.9	605.2	606.2
47.5°	549.9	552.0	561.6	563.7	563.7
50°	511.6	516.9	522.2	522.2	520.1
52.5°	476.5	477.5	483.9	479.7	477.5
55°	439.2	439.2	442.4	436.1	430.7
57.5°	402.0	402.0	402.0	393.5	389.3
60°	363.7	362.7	358.4	347.8	344.6
62.5°	327.6	324.4	318.0	307.4	301.0
65°	290.4	286.1	278.7	263.8	259.5
67.5°	255.3	247.8	239.3	225.5	218.0
70°	218.0	211.6	199.9	184.0	177.6
72.5°	181.9	175.5	165.9	150.0	140.4
75°	146.8	141.5	129.8	113.8	110.6
77.5°	112.7	109.5	97.8	90.4	89.3
80°	81.9	80.8	71.3	69.1	69.1
82.5°	54.2	53.2	50.0	50.0	48.9
85°	29.8	30.8	31.9	31.9	31.9
87.5°	10.6	12.8	14.9	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)