

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: P297788

Luminaire Tested: **D3X-WG-23L92765-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-23L92765-LD5-UNV-14-T1-W2A-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2033.0 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

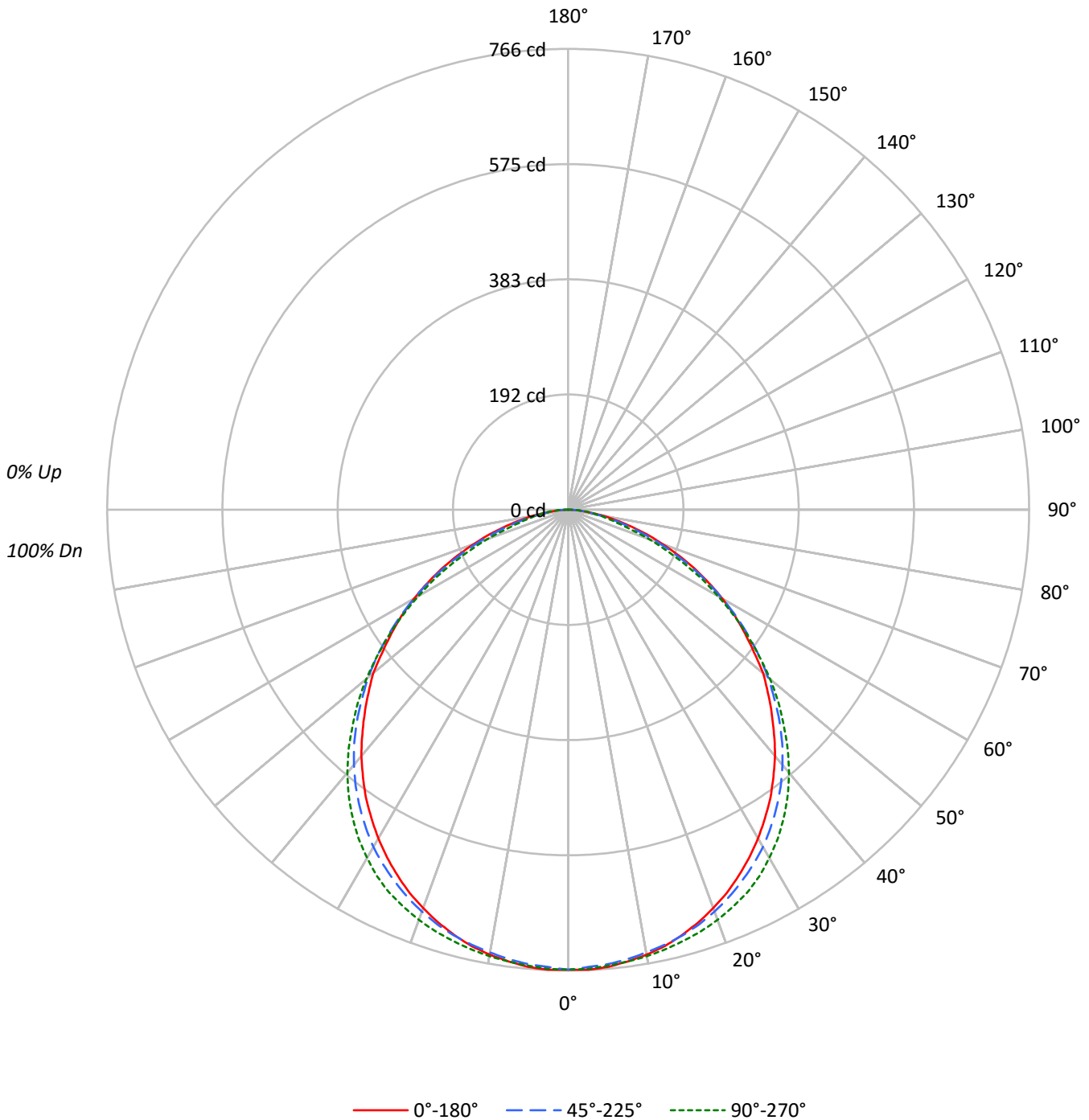
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2058	2058	2058
5°	2061	2048	2055
10°	2052	2042	2059
15°	2039	2042	2067
20°	2018	2036	2078
25°	1992	2024	2087
30°	1960	2011	2076
35°	1923	1983	2052
40°	1878	1945	2005
45°	1820	1889	1927
50°	1770	1816	1834
55°	1681	1715	1706
60°	1590	1590	1546
65°	1476	1442	1360
70°	1309	1252	1130
75°	1134	1030	869
80°	930	803	789
85°	618	729	787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	3.6
10°-20°	207.5	10.2
20°-30°	315.4	15.5
30°-40°	377.6	18.6
40°-50°	380.9	18.7
50°-60°	324.4	16.0
60°-70°	221.8	10.9
70°-80°	106.2	5.2
80°-90°	26.9	1.3
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°	595.2	29.3
0°-40°	972.8	47.8
0°-60°	1678.1	82.5
0°-90°	2033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2033.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	763	762	758	762	761	72
15°	732	730	733	741	742	206
25°	671	672	682	697	703	309
35°	586	587	604	621	625	366
45°	478	482	496	506	506	369
55°	358	360	366	366	364	321
65°	232	227	226	218	214	229
75°	109	107	99	86	84	117
85°	20	22	24	24	26	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	764.6	764.6	764.6	764.6	764.6
2.5°	765.5	764.6	760.9	764.6	763.7
5°	762.8	761.8	758.2	761.8	760.9
7.5°	757.3	756.4	753.7	757.3	757.3
10°	750.9	749.1	747.3	752.8	753.7
12.5°	742.8	740.9	740.9	747.3	748.2
15°	731.8	730.0	732.8	740.9	741.8
17.5°	719.1	718.2	722.8	732.8	734.6
20°	704.6	703.7	710.9	722.8	725.5
22.5°	689.1	689.1	697.3	710.9	714.6
25°	670.9	671.8	681.8	697.3	702.8
27.5°	651.8	653.7	665.5	682.8	687.3
30°	630.9	633.7	647.3	663.7	668.2
32.5°	608.2	610.9	626.4	643.7	648.2
35°	585.5	587.3	603.7	620.9	624.6
37.5°	560.0	562.7	580.0	595.5	599.1
40°	534.6	537.3	553.7	568.2	570.9
42.5°	506.4	510.0	526.4	538.2	540.0
45°	478.2	481.8	496.4	506.4	506.4
47.5°	450.0	451.8	464.6	474.6	473.7
50°	422.7	421.8	433.7	438.2	438.2
52.5°	389.1	391.8	400.0	402.7	400.0
55°	358.2	360.0	365.5	366.4	363.6
57.5°	328.2	327.3	331.8	329.1	325.5
60°	295.5	295.5	295.5	292.7	287.3
62.5°	263.6	261.8	260.9	254.6	251.8
65°	231.8	227.3	226.4	218.2	213.6
67.5°	198.2	196.4	191.8	183.6	175.5
70°	166.4	164.6	159.1	149.1	143.6
72.5°	137.3	135.5	128.2	116.4	109.1
75°	109.1	107.3	99.1	86.4	83.6
77.5°	82.7	81.8	73.6	67.3	66.4
80°	60.0	59.1	51.8	51.8	50.9
82.5°	38.2	38.2	36.4	37.3	38.2
85°	20.0	21.8	23.6	24.5	25.5
87.5°	6.4	10.0	11.8	12.7	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)