

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: P297648

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297648
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-23L92765-LD5-UNV-14-T1-W2A-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2036.0 lumens
Efficiency: N/A
Efficacy: 97.0 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

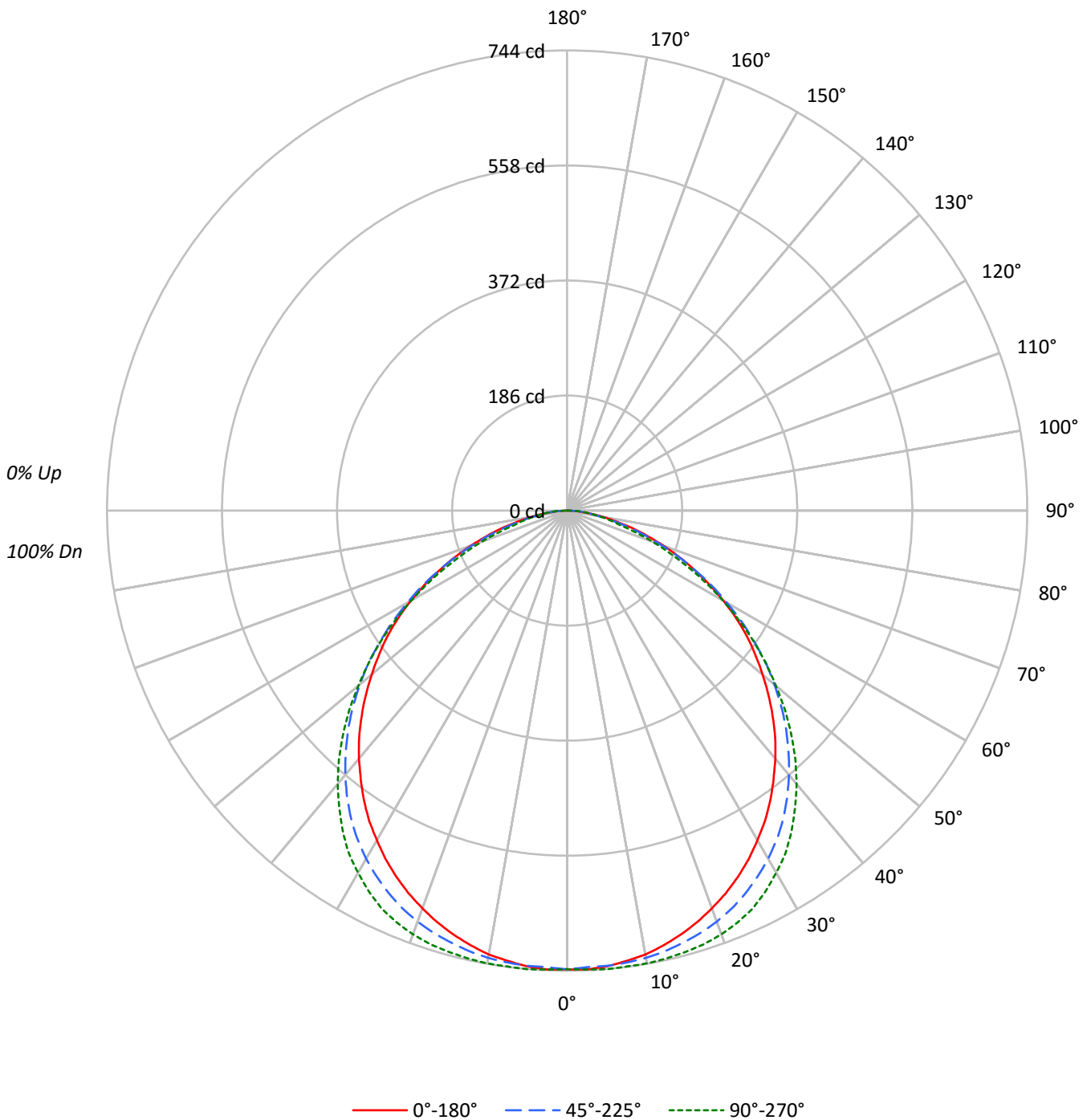
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1996	1996	1996
5°	1998	1996	2011
10°	1992	2006	2031
15°	1977	2015	2059
20°	1960	2025	2087
25°	1940	2026	2108
30°	1912	2019	2101
35°	1881	2000	2078
40°	1839	1960	2027
45°	1788	1906	1951
50°	1727	1830	1845
55°	1667	1731	1723
60°	1570	1604	1565
65°	1447	1452	1372
70°	1294	1266	1151
75°	1125	1049	888
80°	902	817	817
85°	645	756	784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	3.5
10°-20°	204.7	10.1
20°-30°	314.3	15.4
30°-40°	378.6	18.6
40°-50°	382.6	18.8
50°-60°	326.3	16.0
60°-70°	223.4	11.0
70°-80°	107.8	5.3
80°-90°	27.8	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°	589.6	29.0
0°-40°	968.2	47.6
0°-60°	1677.0	82.4
0°-90°	2036.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2036.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	740	740	739	743	744	70
15°	710	715	723	736	739	200
25°	653	663	682	702	710	301
35°	573	585	609	628	632	358
45°	470	483	501	513	513	362
55°	355	362	369	371	367	316
65°	227	230	228	220	215	225
75°	108	108	101	89	85	115
85°	21	23	24	25	25	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	741.6	741.6	741.6	741.6	741.6
2.5°	742.5	741.6	738.9	742.5	742.5
5°	739.8	739.8	738.9	743.4	744.3
7.5°	734.3	736.2	737.1	742.5	743.4
10°	728.9	730.7	734.3	741.6	743.4
12.5°	719.8	723.4	729.8	739.8	741.6
15°	709.8	715.2	723.4	736.2	738.9
17.5°	698.0	705.3	716.2	730.7	735.2
20°	684.3	692.5	707.1	723.4	728.9
22.5°	669.8	678.9	696.2	715.2	720.7
25°	653.4	663.4	682.5	702.5	709.8
27.5°	635.3	646.2	667.1	688.0	694.3
30°	615.3	627.1	649.8	670.7	676.2
32.5°	595.3	607.1	630.7	650.7	657.1
35°	572.6	585.3	608.9	628.0	632.5
37.5°	548.0	560.7	584.4	603.5	605.3
40°	523.5	536.2	558.0	575.3	577.1
42.5°	498.0	509.9	529.8	544.4	546.2
45°	469.9	482.6	500.8	512.6	512.6
47.5°	441.7	454.4	469.9	478.0	478.0
50°	412.6	424.4	437.1	441.7	440.8
52.5°	383.5	394.4	405.3	406.2	404.4
55°	355.4	361.7	369.0	370.8	367.2
57.5°	324.5	329.9	334.4	331.7	329.0
60°	291.7	297.2	298.1	293.6	290.8
62.5°	259.9	264.5	264.5	257.2	252.7
65°	227.2	229.9	228.1	219.9	215.4
67.5°	196.3	198.1	194.5	186.3	179.0
70°	164.5	165.4	160.9	150.9	146.3
72.5°	135.4	136.3	130.9	119.1	113.6
75°	108.2	108.2	100.9	89.1	85.4
77.5°	80.9	83.6	75.4	69.1	69.1
80°	58.2	60.9	52.7	53.6	52.7
82.5°	38.2	40.9	38.2	38.2	38.2
85°	20.9	22.7	24.5	25.4	25.4
87.5°	6.4	10.9	11.8	12.7	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)