

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: P297999

Luminaire Tested: **D3X-WD-20L82765-LD5-UNV-22-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-20L82765-LD5-UNV-22-T1-W2A-2700K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1703.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

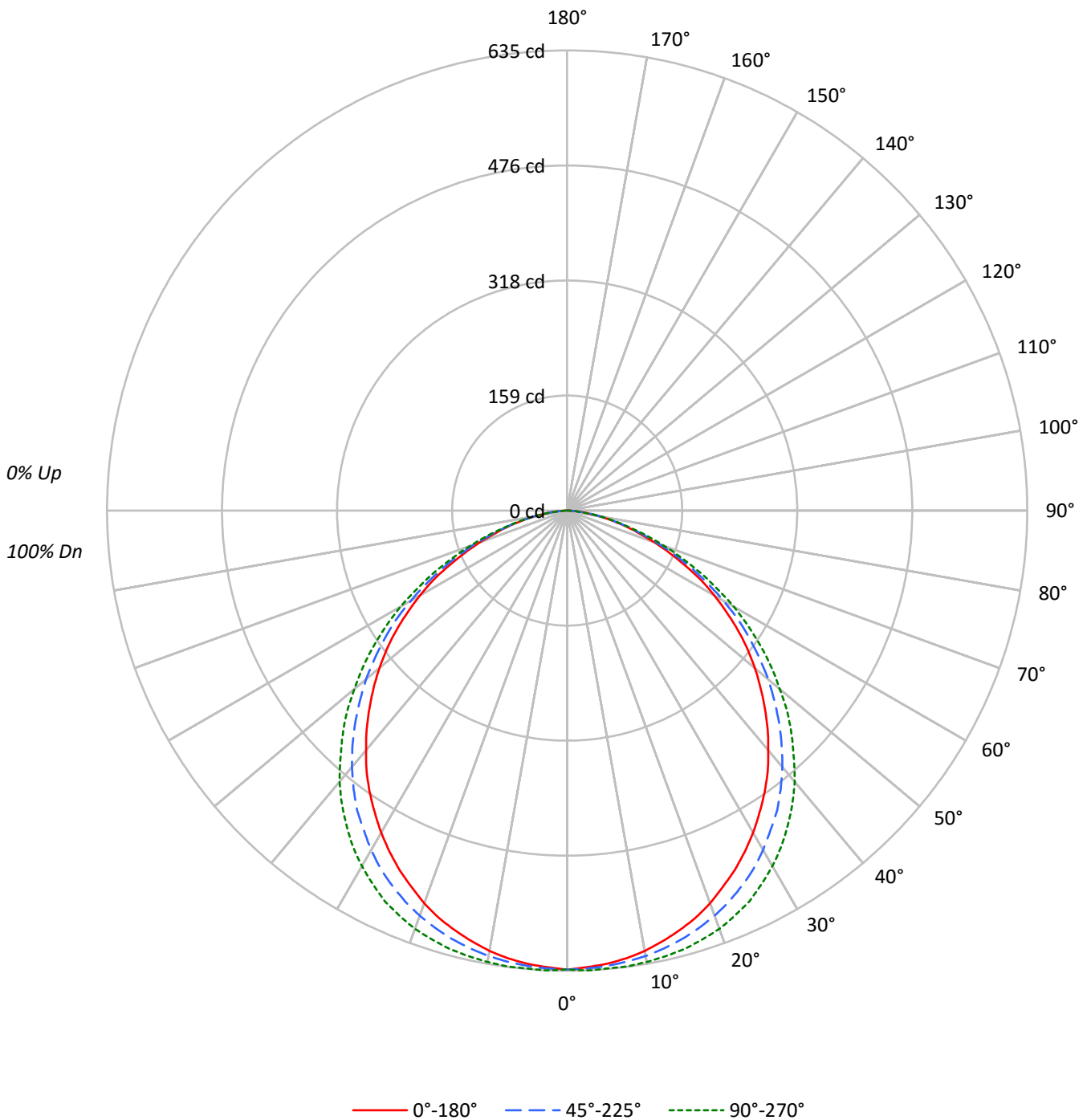
Input Watts (W): 15.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	31	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°	1704	1704	1704
5°	1696	1704	1713
10°	1686	1706	1728
15°	1670	1706	1744
20°	1651	1704	1759
25°	1625	1696	1766
30°	1595	1680	1760
35°	1560	1659	1743
40°	1516	1623	1716
45°	1469	1573	1668
50°	1416	1516	1604
55°	1350	1441	1531
60°	1263	1342	1431
65°	1144	1214	1290
70°	1009	1060	1118
75°	867	886	924
80°	696	710	724
85°	509	454	454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.0	3.5
10°-20°	172.9	10.2
20°-30°	263.0	15.4
30°-40°	314.7	18.5
40°-50°	318.1	18.7
50°-60°	273.8	16.1
60°-70°	189.0	11.1
70°-80°	91.6	5.4
80°-90°	19.9	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°	495.9	29.1
0°-40°	810.6	47.6
0°-60°	1402.5	82.4
0°-90°	1703.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1703.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	633	633	633	633	633	
5°	628	629	631	633	634	60
15°	600	603	612	622	626	169
25°	547	554	571	588	595	252
35°	475	483	505	523	531	297
45°	386	393	413	431	438	298
55°	288	292	307	321	326	257
65°	180	182	191	199	203	179
75°	83	82	85	88	89	89
85°	16	16	15	15	15	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	633.4	633.4	633.4	633.4	633.4
2.5°	630.7	630.7	632.5	634.3	635.2
5°	627.9	628.8	630.7	633.4	634.3
7.5°	623.3	624.2	627.9	632.5	634.3
10°	616.9	618.7	624.2	629.7	632.5
12.5°	608.7	612.3	618.7	626.1	629.7
15°	599.5	603.2	612.3	621.5	626.1
17.5°	589.4	593.1	604.1	616.0	620.6
20°	576.6	582.1	594.9	608.7	614.2
22.5°	561.9	569.2	583.9	598.6	605.0
25°	547.2	553.7	571.1	588.5	594.9
27.5°	530.7	538.1	557.3	574.7	581.2
30°	513.3	520.7	540.8	560.1	566.5
32.5°	494.1	503.2	522.5	542.7	550.0
35°	474.8	483.1	505.1	523.4	530.7
37.5°	454.7	462.0	484.0	503.2	510.6
40°	431.7	440.0	462.0	481.2	488.6
42.5°	409.7	418.0	438.2	456.5	462.9
45°	385.9	393.2	413.4	430.8	438.2
47.5°	362.1	370.3	387.7	405.2	412.5
50°	338.2	344.7	362.1	378.6	383.2
52.5°	313.5	319.0	334.6	349.2	355.7
55°	287.8	292.4	307.1	320.8	326.3
57.5°	260.3	265.8	279.6	289.7	296.1
60°	234.7	237.4	249.3	259.4	265.8
62.5°	209.0	209.9	219.1	229.2	232.8
65°	179.7	182.4	190.7	198.9	202.6
67.5°	153.1	155.8	162.2	168.7	171.4
70°	128.3	128.3	134.7	139.3	142.1
72.5°	103.6	104.5	109.1	111.8	114.6
75°	83.4	81.6	85.2	88.0	88.9
77.5°	62.3	61.4	64.2	65.1	66.9
80°	44.9	44.9	45.8	46.7	46.7
82.5°	29.3	29.3	30.2	28.4	27.5
85°	16.5	16.5	14.7	14.7	14.7
87.5°	5.5	5.5	5.5	6.4	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)