

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: P298003

Luminaire Tested: **D3X-WD-20L82765-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298003
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-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1886.0 lumens
Efficiency: N/A
Efficacy: 120.1 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

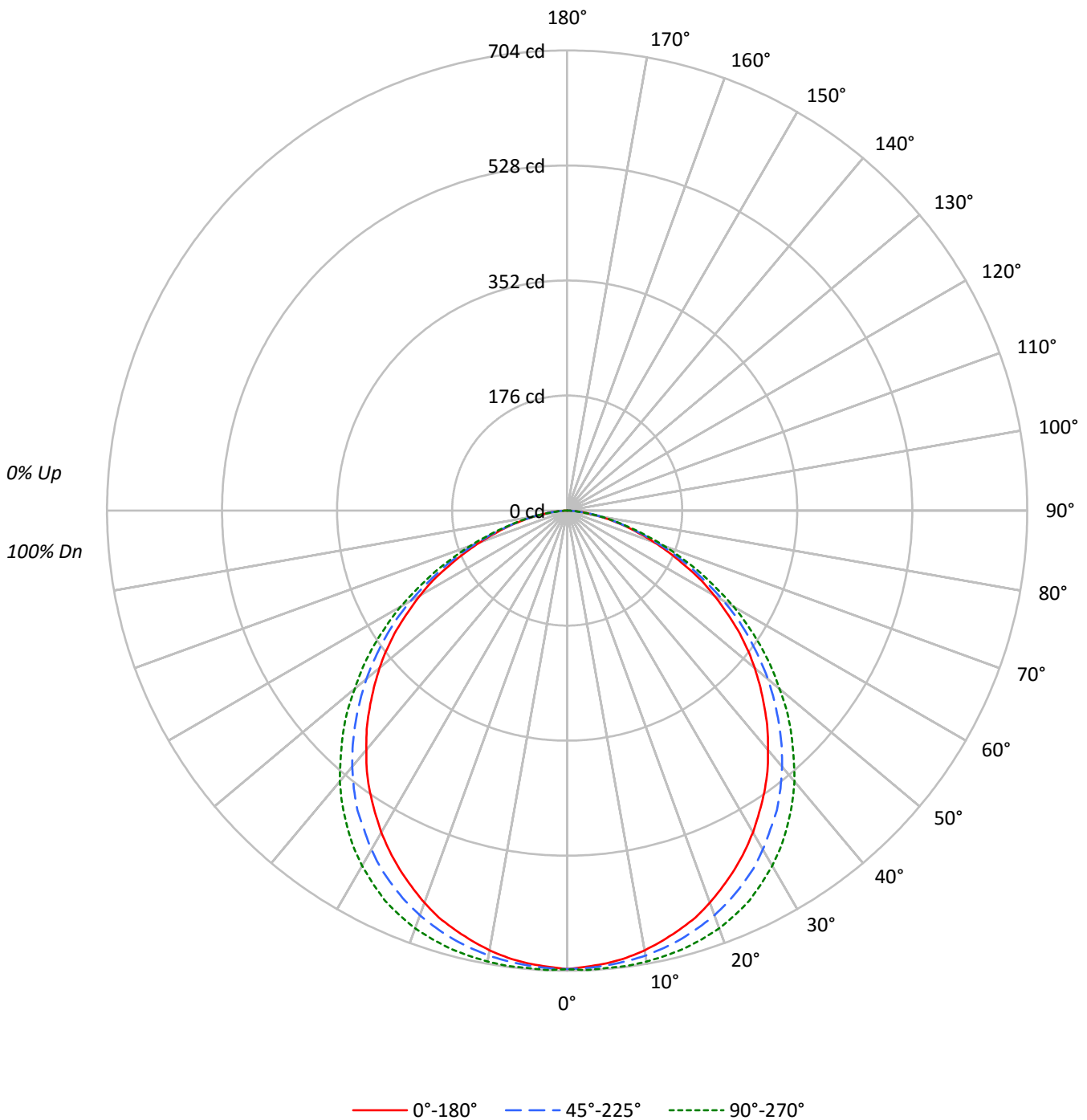
Input Watts (W): 15.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1888	1888	1888
5°	1878	1887	1898
10°	1867	1889	1914
15°	1850	1889	1932
20°	1828	1887	1948
25°	1800	1878	1956
30°	1766	1861	1950
35°	1728	1838	1931
40°	1679	1797	1901
45°	1627	1742	1847
50°	1568	1679	1776
55°	1496	1596	1696
60°	1399	1486	1584
65°	1267	1345	1429
70°	1118	1174	1238
75°	961	981	1024
80°	770	787	803
85°	565	500	500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	3.5
10°-20°	191.5	10.2
20°-30°	291.3	15.4
30°-40°	348.5	18.5
40°-50°	352.3	18.7
50°-60°	303.2	16.1
60°-70°	209.3	11.1
70°-80°	101.5	5.4
80°-90°	22.0	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°	549.2	29.1
0°-40°	897.7	47.6
0°-60°	1553.2	82.4
0°-90°	1886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1886.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	695	696	698	702	702	66
15°	664	668	678	688	693	187
25°	606	613	632	652	659	279
35°	526	535	559	580	588	329
45°	427	436	458	477	485	330
55°	319	324	340	355	361	284
65°	199	202	211	220	224	198
75°	92	90	94	98	98	98
85°	18	18	16	16	16	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	701.5	701.5	701.5	701.5	701.5
2.5°	698.4	698.4	700.5	702.5	703.5
5°	695.4	696.4	698.4	701.5	702.5
7.5°	690.3	691.3	695.4	700.5	702.5
10°	683.2	685.2	691.3	697.4	700.5
12.5°	674.1	678.1	685.2	693.4	697.4
15°	663.9	668.0	678.1	688.3	693.4
17.5°	652.8	656.8	669.0	682.2	687.3
20°	638.5	644.6	658.8	674.1	680.2
22.5°	622.3	630.4	646.7	662.9	670.0
25°	606.1	613.2	632.4	651.7	658.8
27.5°	587.8	595.9	617.2	636.5	643.6
30°	568.5	576.6	598.9	620.3	627.4
32.5°	547.2	557.3	578.6	601.0	609.1
35°	525.9	535.0	559.4	579.7	587.8
37.5°	503.5	511.6	536.0	557.3	565.4
40°	478.1	487.3	511.6	533.0	541.1
42.5°	453.8	462.9	485.3	505.6	512.7
45°	427.4	435.5	457.8	477.1	485.3
47.5°	401.0	410.1	429.4	448.7	456.8
50°	374.6	381.7	401.0	419.3	424.3
52.5°	347.2	353.3	370.5	386.8	393.9
55°	318.8	323.8	340.1	355.3	361.4
57.5°	288.3	294.4	309.6	320.8	327.9
60°	259.9	262.9	276.1	287.3	294.4
62.5°	231.5	232.5	242.6	253.8	257.9
65°	199.0	202.0	211.2	220.3	224.4
67.5°	169.5	172.6	179.7	186.8	189.8
70°	142.1	142.1	149.2	154.3	157.4
72.5°	114.7	115.7	120.8	123.9	126.9
75°	92.4	90.3	94.4	97.5	98.5
77.5°	69.0	68.0	71.1	72.1	74.1
80°	49.7	49.7	50.8	51.8	51.8
82.5°	32.5	32.5	33.5	31.5	30.5
85°	18.3	18.3	16.2	16.2	16.2
87.5°	6.1	6.1	6.1	7.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)