

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: P298000

Luminaire Tested: **D3X-WD-20L82765-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298000
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-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1752.0 lumens
Efficiency: N/A
Efficacy: 114.5 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

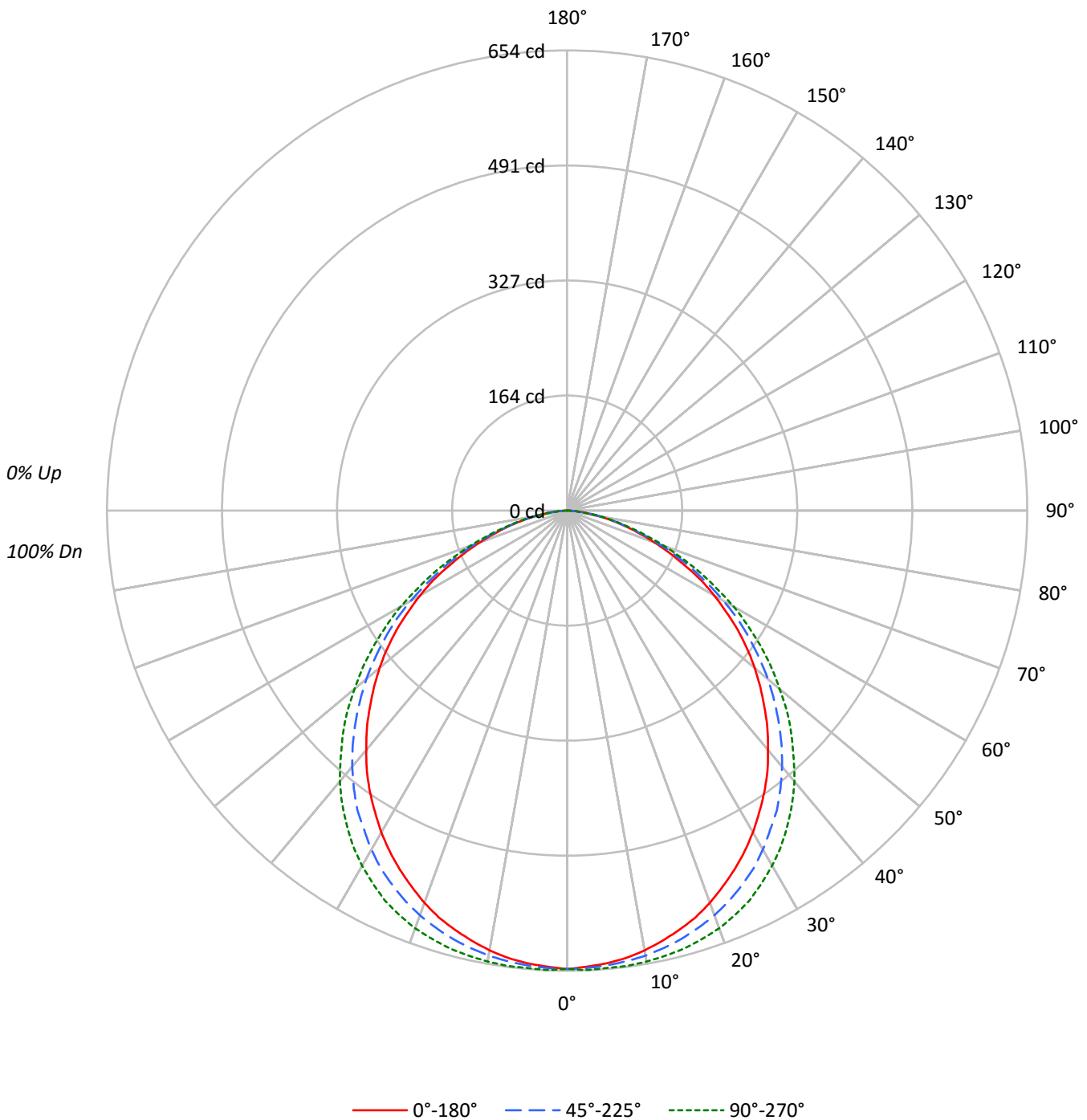
Input Watts (W): 15.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1753	1753	1753
5°	1745	1753	1763
10°	1734	1755	1778
15°	1718	1755	1794
20°	1699	1753	1809
25°	1672	1744	1817
30°	1641	1729	1811
35°	1605	1707	1794
40°	1560	1670	1766
45°	1511	1619	1716
50°	1457	1559	1650
55°	1389	1482	1575
60°	1299	1380	1472
65°	1177	1249	1327
70°	1039	1090	1150
75°	892	912	951
80°	716	731	745
85°	525	466	466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	3.5
10°-20°	177.9	10.2
20°-30°	270.6	15.4
30°-40°	323.7	18.5
40°-50°	327.3	18.7
50°-60°	281.6	16.1
60°-70°	194.4	11.1
70°-80°	94.3	5.4
80°-90°	20.5	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°	510.2	29.1
0°-40°	833.9	47.6
0°-60°	1442.8	82.4
0°-90°	1752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1752.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	652	652	652	652	652	
5°	646	647	649	652	653	61
15°	617	620	630	639	644	174
25°	563	570	588	605	612	259
35°	488	497	520	538	546	305
45°	397	405	425	443	451	306
55°	296	301	316	330	336	264
65°	185	188	196	205	208	184
75°	86	84	88	90	92	91
85°	17	17	15	15	15	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	651.6	651.6	651.6	651.6	651.6
2.5°	648.8	648.8	650.7	652.6	653.5
5°	646.0	646.9	648.8	651.6	652.6
7.5°	641.3	642.2	646.0	650.7	652.6
10°	634.7	636.6	642.2	647.9	650.7
12.5°	626.2	630.0	636.6	644.1	647.9
15°	616.7	620.5	630.0	639.4	644.1
17.5°	606.4	610.1	621.5	633.7	638.4
20°	593.2	598.8	612.0	626.2	631.8
22.5°	578.1	585.6	600.7	615.8	622.4
25°	563.0	569.6	587.5	605.4	612.0
27.5°	546.0	553.6	573.4	591.3	597.9
30°	528.1	535.6	556.4	576.2	582.8
32.5°	508.3	517.7	537.5	558.3	565.8
35°	488.5	497.0	519.6	538.5	546.0
37.5°	467.7	475.3	497.9	517.7	525.3
40°	444.2	452.7	475.3	495.1	502.6
42.5°	421.5	430.0	450.8	469.6	476.2
45°	397.0	404.6	425.3	443.2	450.8
47.5°	372.5	381.0	398.9	416.8	424.4
50°	348.0	354.6	372.5	389.5	394.2
52.5°	322.5	328.2	344.2	359.3	365.9
55°	296.1	300.8	315.9	330.1	335.7
57.5°	267.8	273.5	287.6	298.0	304.6
60°	241.4	244.2	256.5	266.9	273.5
62.5°	215.0	216.0	225.4	235.8	239.5
65°	184.8	187.7	196.2	204.6	208.4
67.5°	157.5	160.3	166.9	173.5	176.3
70°	132.0	132.0	138.6	143.3	146.2
72.5°	106.6	107.5	112.2	115.1	117.9
75°	85.8	83.9	87.7	90.5	91.5
77.5°	64.1	63.2	66.0	67.0	68.8
80°	46.2	46.2	47.2	48.1	48.1
82.5°	30.2	30.2	31.1	29.2	28.3
85°	17.0	17.0	15.1	15.1	15.1
87.5°	5.7	5.7	5.7	6.6	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)