

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: P298171

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-20L82765-LD5-UNV-22-T1-W2A-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1912.0 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

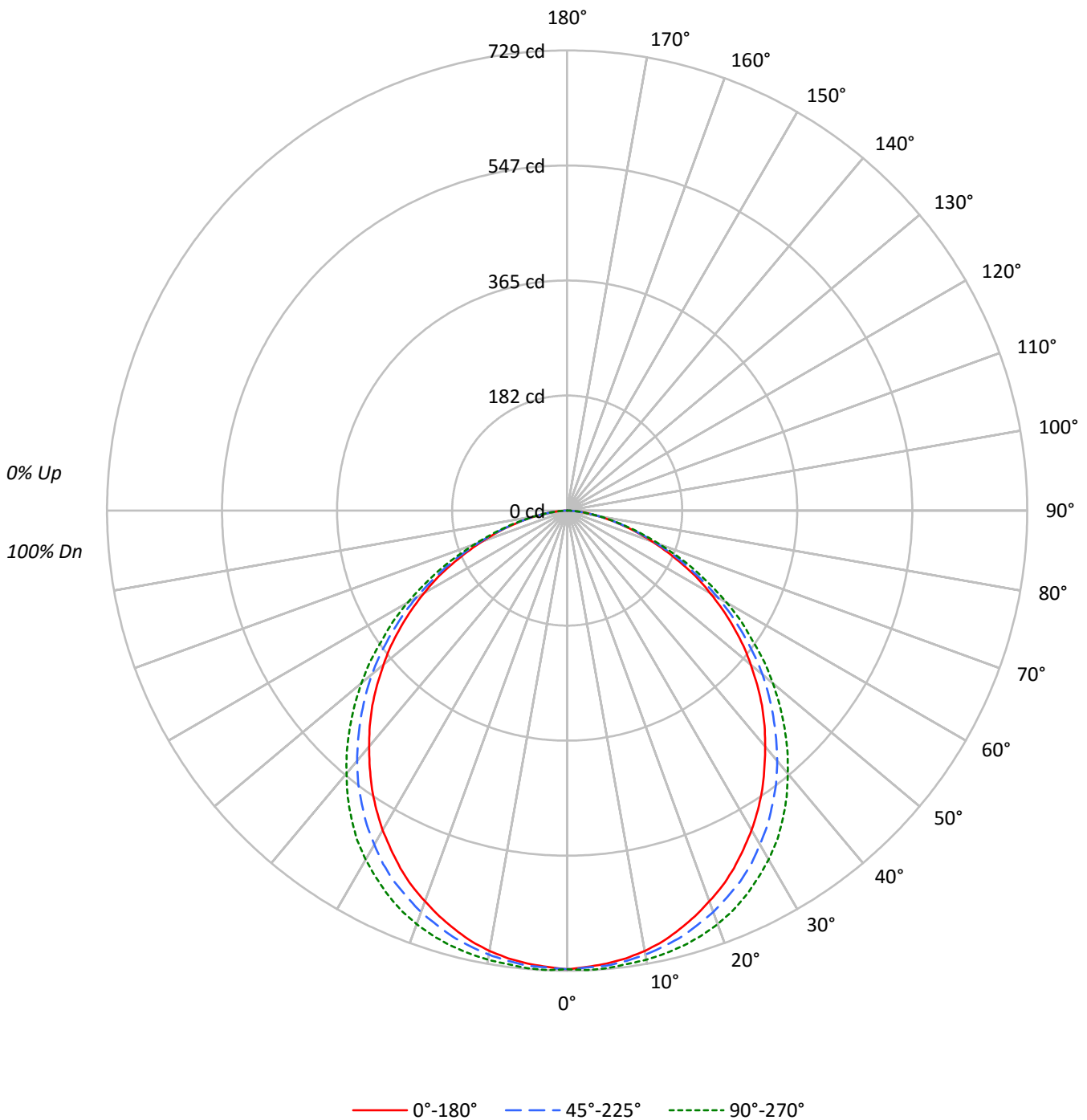
Input Watts (W): 15.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	86	80	97	90	84	79	87	82	77		83	79	76		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	82	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49		59	53	48		58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43		54	47	42		52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38		49	43	38		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31		42	35	30		41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28		39	32	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1955	1955	1955
5°	1946	1955	1965
10°	1935	1952	1974
15°	1914	1948	1987
20°	1886	1938	1997
25°	1856	1926	1995
30°	1816	1898	1983
35°	1770	1864	1957
40°	1715	1818	1911
45°	1661	1757	1854
50°	1589	1691	1780
55°	1509	1595	1681
60°	1409	1485	1573
65°	1286	1344	1422
70°	1126	1174	1222
75°	960	981	1023
80°	770	786	803
85°	565	534	500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	3.6
10°-20°	197.4	10.3
20°-30°	298.4	15.6
30°-40°	354.4	18.5
40°-50°	355.8	18.6
50°-60°	304.0	15.9
60°-70°	209.4	11.0
70°-80°	101.5	5.3
80°-90°	22.2	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°	564.6	29.5
0°-40°	919.0	48.1
0°-60°	1578.8	82.6
0°-90°	1912.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1912.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	727	727	727	727	727	
5°	720	720	724	726	728	68
15°	687	690	699	708	713	194
25°	625	630	648	666	672	288
35°	539	547	567	589	596	337
45°	436	442	462	481	487	336
55°	322	327	340	354	358	288
65°	202	202	211	220	223	200
75°	92	90	94	96	98	99
85°	18	18	17	16	16	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	726.6	726.6	726.6	726.6	726.6
2.5°	723.6	723.6	724.6	727.6	728.6
5°	720.5	720.5	723.6	725.6	727.6
7.5°	715.4	716.5	719.5	723.6	724.6
10°	708.3	709.4	714.4	719.5	722.5
12.5°	699.2	701.2	707.3	715.4	718.5
15°	687.0	690.1	699.2	708.3	713.4
17.5°	673.8	677.9	688.0	701.2	706.3
20°	658.6	663.7	676.9	691.1	697.2
22.5°	643.4	647.4	662.7	678.9	686.0
25°	625.1	630.2	648.5	665.7	671.8
27.5°	604.8	611.9	631.2	649.5	655.6
30°	584.5	590.6	610.9	631.2	638.3
32.5°	562.2	568.3	590.6	610.9	619.0
35°	538.9	547.0	567.3	588.6	595.7
37.5°	513.5	522.6	543.9	562.2	571.3
40°	488.1	496.2	517.6	536.8	543.9
42.5°	462.8	469.9	490.2	510.4	516.5
45°	436.4	442.5	461.7	481.0	487.1
47.5°	408.0	415.1	433.3	449.6	456.7
50°	379.5	386.6	403.9	419.1	425.2
52.5°	352.1	356.2	372.4	386.6	393.7
55°	321.7	326.8	340.0	354.2	358.2
57.5°	292.3	295.3	308.5	320.7	326.8
60°	261.8	263.9	276.0	285.2	292.3
62.5°	233.4	233.4	242.5	252.7	256.7
65°	201.9	201.9	211.1	220.2	223.3
67.5°	171.5	173.5	179.6	186.7	188.8
70°	143.1	143.1	149.2	154.3	155.3
72.5°	117.7	116.7	119.7	123.8	125.8
75°	92.3	90.3	94.4	96.4	98.4
77.5°	70.0	69.0	71.0	73.1	73.1
80°	49.7	48.7	50.7	50.7	51.8
82.5°	32.5	33.5	33.5	32.5	31.5
85°	18.3	18.3	17.3	16.2	16.2
87.5°	6.1	6.1	6.1	7.1	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)