

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: P298173

Luminaire Tested: **D3X-WG-20L82765-LD5-UNV-22-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298173
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-5500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1957.0 lumens
Efficiency: N/A
Efficacy: 123.1 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

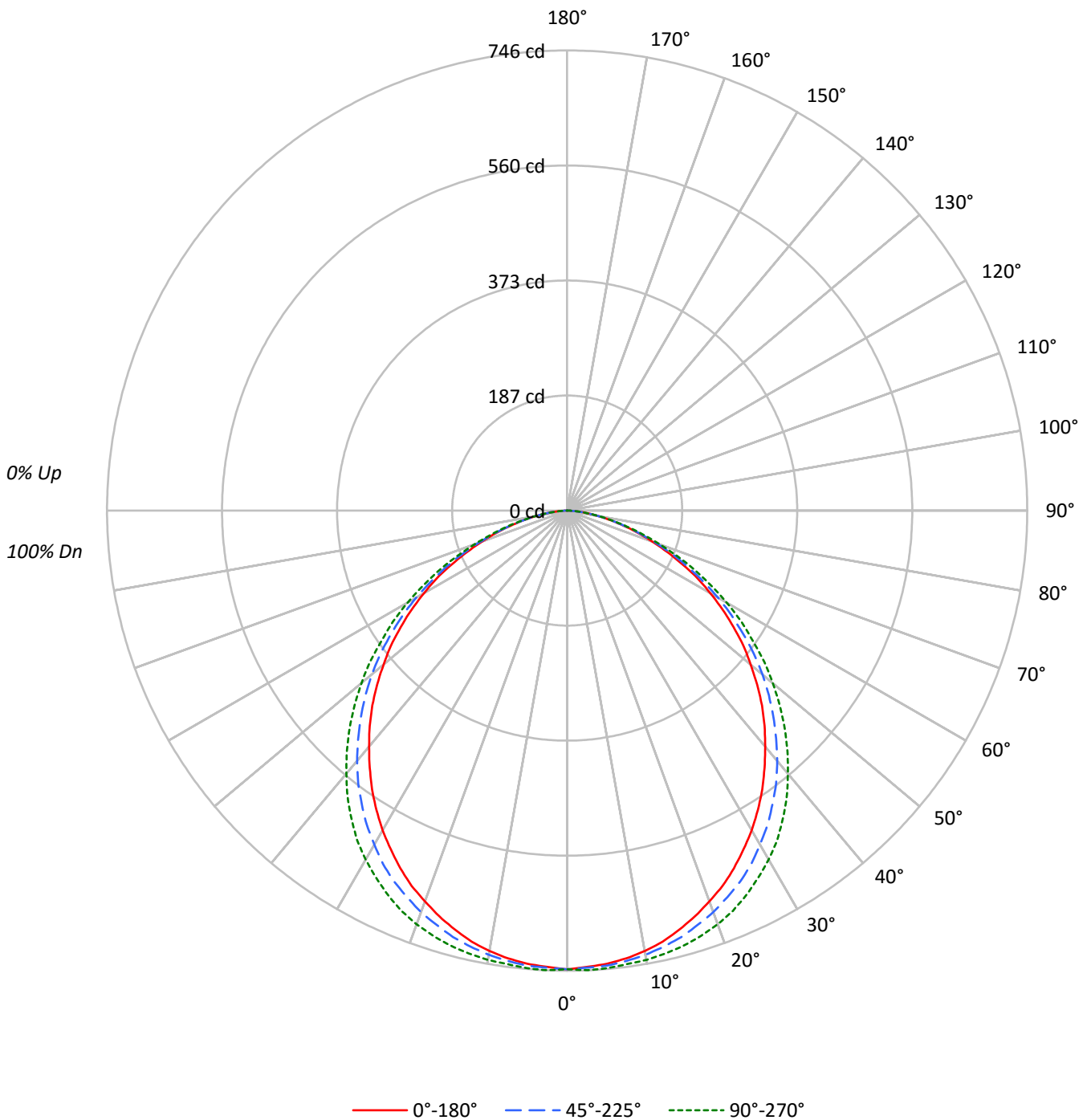
Input Watts (W): 15.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2001	2001	2001
5°	1992	2001	2012
10°	1981	1998	2021
15°	1959	1994	2034
20°	1930	1984	2044
25°	1900	1971	2042
30°	1859	1943	2030
35°	1812	1907	2003
40°	1755	1861	1956
45°	1700	1799	1897
50°	1626	1731	1822
55°	1545	1633	1720
60°	1442	1520	1610
65°	1316	1375	1455
70°	1153	1201	1250
75°	983	1004	1048
80°	789	804	821
85°	577	546	513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	3.6
10°-20°	202.0	10.3
20°-30°	305.4	15.6
30°-40°	362.8	18.5
40°-50°	364.2	18.6
50°-60°	311.1	15.9
60°-70°	214.3	11.0
70°-80°	103.9	5.3
80°-90°	22.7	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°	577.9	29.5
0°-40°	940.7	48.1
0°-60°	1616.0	82.6
0°-90°	1957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1957.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	738	738	741	743	745	70
15°	703	706	716	725	730	198
25°	640	645	664	681	688	294
35°	552	560	581	602	610	345
45°	447	453	473	492	499	344
55°	329	334	348	362	367	294
65°	207	207	216	225	228	205
75°	94	92	97	99	101	102
85°	19	19	18	17	17	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.7	743.7	743.7	743.7	743.7
2.5°	740.6	740.6	741.6	744.7	745.8
5°	737.5	737.5	740.6	742.7	744.7
7.5°	732.3	733.3	736.4	740.6	741.6
10°	725.0	726.0	731.2	736.4	739.6
12.5°	715.7	717.7	724.0	732.3	735.4
15°	703.2	706.3	715.7	725.0	730.2
17.5°	689.7	693.8	704.2	717.7	722.9
20°	674.1	679.3	692.8	707.4	713.6
22.5°	658.5	662.7	678.3	694.9	702.2
25°	639.8	645.0	663.7	681.4	687.6
27.5°	619.1	626.3	646.1	664.8	671.0
30°	598.3	604.5	625.3	646.1	653.3
32.5°	575.4	581.7	604.5	625.3	633.6
35°	551.5	559.9	580.6	602.4	609.7
37.5°	525.6	534.9	556.7	575.4	584.8
40°	499.6	507.9	529.7	549.5	556.7
42.5°	473.6	480.9	501.7	522.5	528.7
45°	446.6	452.9	472.6	492.3	498.6
47.5°	417.6	424.8	443.5	460.1	467.4
50°	388.5	395.7	413.4	429.0	435.2
52.5°	360.4	364.6	381.2	395.7	403.0
55°	329.3	334.5	348.0	362.5	366.7
57.5°	299.1	302.3	315.8	328.2	334.5
60°	268.0	270.1	282.5	291.9	299.1
62.5°	238.9	238.9	248.2	258.6	262.8
65°	206.7	206.7	216.0	225.4	228.5
67.5°	175.5	177.6	183.8	191.1	193.2
70°	146.5	146.5	152.7	157.9	158.9
72.5°	120.5	119.4	122.6	126.7	128.8
75°	94.5	92.4	96.6	98.7	100.8
77.5°	71.7	70.6	72.7	74.8	74.8
80°	50.9	49.9	51.9	51.9	53.0
82.5°	33.2	34.3	34.3	33.2	32.2
85°	18.7	18.7	17.7	16.6	16.6
87.5°	6.2	6.2	6.2	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)