

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: P298253

Luminaire Tested: **D3X-WG-20L92765-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298253
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-20L92765-LD5-UNV-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1610.0 lumens
Efficiency: N/A
Efficacy: 104.5 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

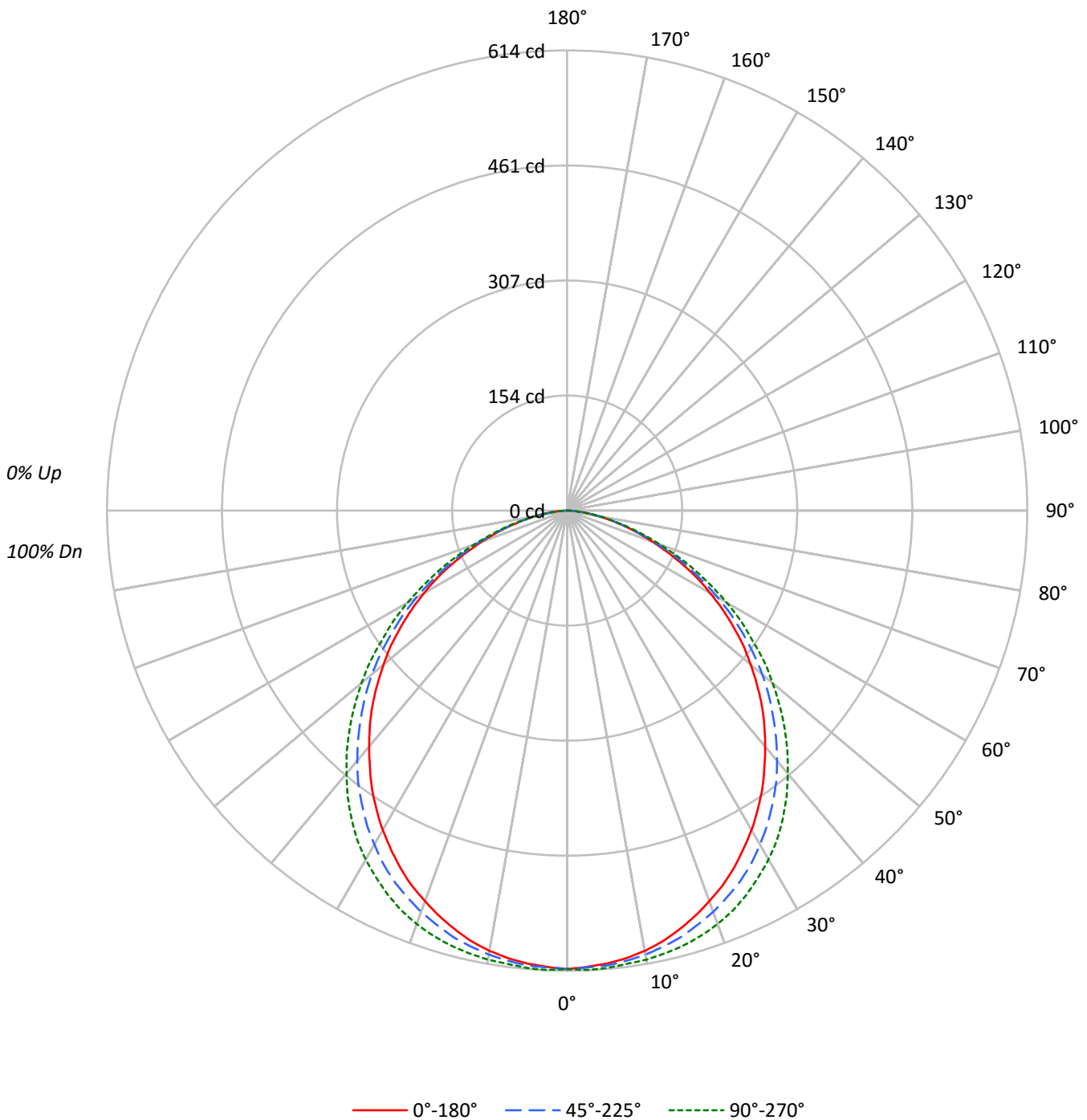
Input Watts (W): 15.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45					45			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32					32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28					28			
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1646	1646	1646
5°	1639	1646	1655
10°	1630	1644	1662
15°	1612	1640	1673
20°	1588	1632	1681
25°	1563	1621	1680
30°	1529	1598	1670
35°	1491	1569	1648
40°	1444	1531	1609
45°	1398	1480	1561
50°	1338	1424	1499
55°	1271	1343	1415
60°	1187	1251	1324
65°	1082	1131	1197
70°	948	988	1028
75°	809	827	862
80°	649	662	676
85°	475	448	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	3.6
10°-20°	166.2	10.3
20°-30°	251.3	15.6
30°-40°	298.5	18.5
40°-50°	299.6	18.6
50°-60°	255.9	15.9
60°-70°	176.3	11.0
70°-80°	85.5	5.3
80°-90°	18.7	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°	475.4	29.5
0°-40°	773.9	48.1
0°-60°	1329.5	82.6
0°-90°	1610.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1610.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	612	612	612	612	612	
5°	607	607	609	611	613	58
15°	578	581	589	596	601	163
25°	526	531	546	561	566	242
35°	454	461	478	496	502	283
45°	367	373	389	405	410	283
55°	271	275	286	298	302	242
65°	170	170	178	185	188	168
75°	78	76	80	81	83	84
85°	15	15	14	14	14	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	611.8	611.8	611.8	611.8	611.8
2.5°	609.3	609.3	610.1	612.7	613.5
5°	606.7	606.7	609.3	611.0	612.7
7.5°	602.4	603.3	605.9	609.3	610.1
10°	596.5	597.3	601.6	605.9	608.4
12.5°	588.8	590.5	595.6	602.4	605.0
15°	578.5	581.1	588.8	596.5	600.7
17.5°	567.4	570.8	579.4	590.5	594.7
20°	554.6	558.9	570.0	581.9	587.1
22.5°	541.8	545.2	558.0	571.7	577.7
25°	526.4	530.7	546.0	560.6	565.7
27.5°	509.3	515.3	531.5	546.9	552.0
30°	492.2	497.3	514.4	531.5	537.5
32.5°	473.4	478.5	497.3	514.4	521.3
35°	453.8	460.6	477.7	495.6	501.6
37.5°	432.4	440.1	458.0	473.4	481.1
40°	411.0	417.9	435.8	452.0	458.0
42.5°	389.7	395.6	412.7	429.8	435.0
45°	367.4	372.6	388.8	405.0	410.2
47.5°	343.5	349.5	364.9	378.6	384.5
50°	319.6	325.6	340.1	352.9	358.0
52.5°	296.5	299.9	313.6	325.6	331.6
55°	270.9	275.2	286.3	298.2	301.6
57.5°	246.1	248.7	259.8	270.0	275.2
60°	220.5	222.2	232.4	240.1	246.1
62.5°	196.5	196.5	204.2	212.8	216.2
65°	170.0	170.0	177.7	185.4	188.0
67.5°	144.4	146.1	151.3	157.2	158.9
70°	120.5	120.5	125.6	129.9	130.7
72.5°	99.1	98.3	100.8	104.3	106.0
75°	77.8	76.1	79.5	81.2	82.9
77.5°	59.0	58.1	59.8	61.5	61.5
80°	41.9	41.0	42.7	42.7	43.6
82.5°	27.3	28.2	28.2	27.3	26.5
85°	15.4	15.4	14.5	13.7	13.7
87.5°	5.1	5.1	5.1	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)