

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: P297719

Luminaire Tested: **D3X-WG-23L82765-LD5-UNV-14-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297719
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-23L82765-LD5-UNV-14-T1-W2A-5000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2310.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

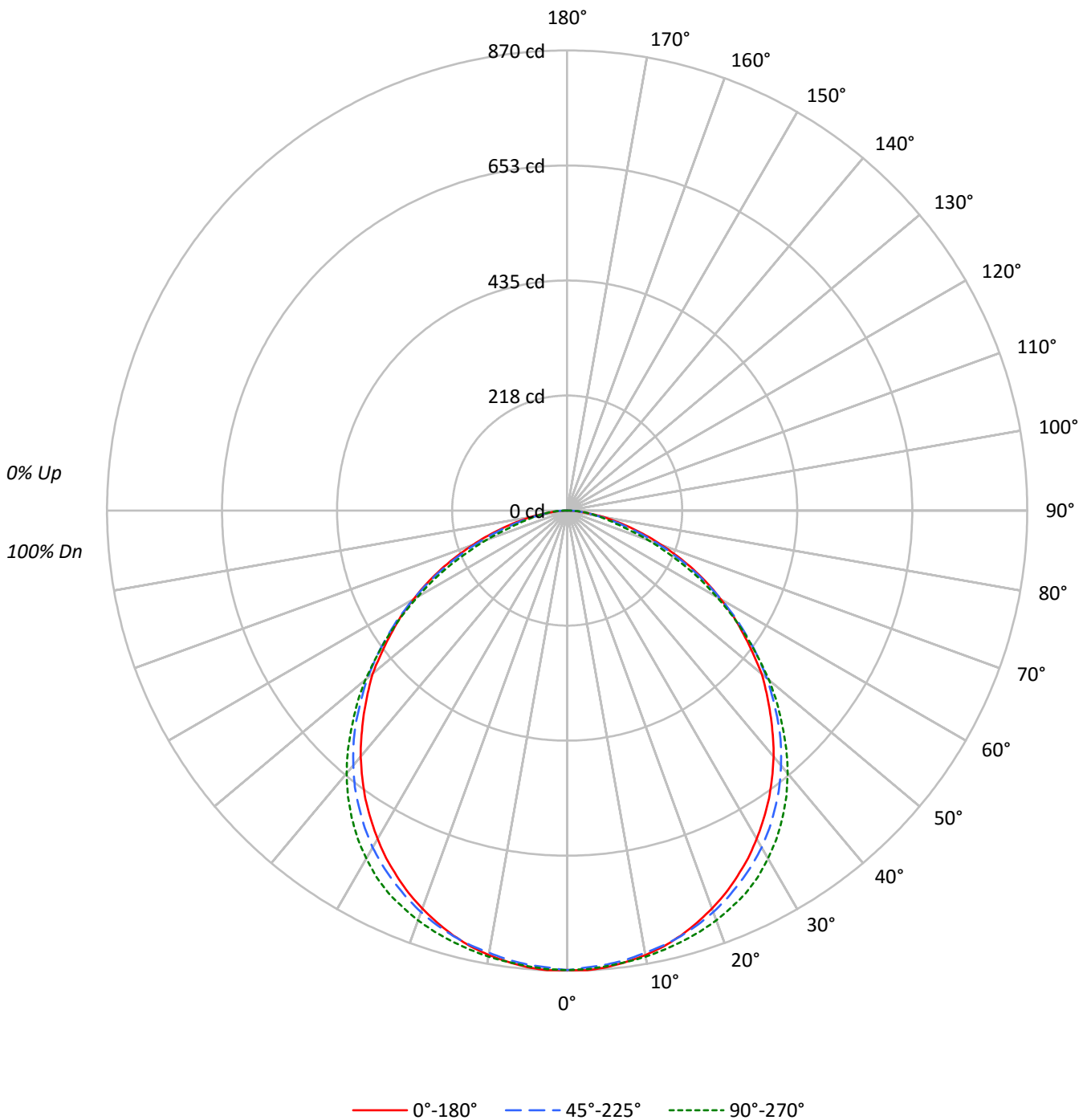
Input Watts (W): 21.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	77	83	79	75	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	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2338	2338	2338
5°	2341	2327	2336
10°	2332	2320	2340
15°	2317	2320	2348
20°	2293	2313	2361
25°	2263	2300	2371
30°	2228	2285	2359
35°	2185	2253	2331
40°	2134	2210	2279
45°	2068	2146	2190
50°	2011	2063	2084
55°	1909	1948	1939
60°	1807	1807	1757
65°	1677	1638	1546
70°	1487	1423	1284
75°	1289	1171	988
80°	1057	913	896
85°	701	831	892



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	3.6
10°-20°	235.8	10.2
20°-30°	358.3	15.5
30°-40°	429.0	18.6
40°-50°	432.8	18.7
50°-60°	368.6	16.0
60°-70°	252.1	10.9
70°-80°	120.7	5.2
80°-90°	30.6	1.3
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°	676.3	29.3
0°-40°	1105.3	47.8
0°-60°	1906.7	82.5
0°-90°	2310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2310.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	869	869	869	869	869	
5°	867	866	862	866	865	82
15°	832	830	833	842	843	234
25°	762	763	775	792	798	351
35°	665	667	686	706	710	416
45°	543	548	564	575	575	420
55°	407	409	415	416	413	364
65°	263	258	257	248	243	260
75°	124	122	113	98	95	132
85°	23	25	27	28	29	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	868.7	868.7	868.7	868.7	868.7
2.5°	869.8	868.7	864.6	868.7	867.7
5°	866.7	865.6	861.5	865.6	864.6
7.5°	860.5	859.5	856.4	860.5	860.5
10°	853.3	851.2	849.1	855.3	856.4
12.5°	844.0	841.9	841.9	849.1	850.2
15°	831.6	829.5	832.6	841.9	842.9
17.5°	817.1	816.1	821.2	832.6	834.7
20°	800.6	799.5	807.8	821.2	824.3
22.5°	783.0	783.0	792.3	807.8	811.9
25°	762.3	763.4	774.7	792.3	798.5
27.5°	740.7	742.7	756.2	775.8	780.9
30°	716.9	720.0	735.5	754.1	759.3
32.5°	691.1	694.2	711.7	731.4	736.5
35°	665.2	667.3	685.9	705.5	709.7
37.5°	636.3	639.4	659.1	676.6	680.7
40°	607.4	610.5	629.1	645.6	648.7
42.5°	575.4	579.5	598.1	611.5	613.6
45°	543.4	547.5	564.0	575.4	575.4
47.5°	511.3	513.4	527.9	539.2	538.2
50°	480.3	479.3	492.7	497.9	497.9
52.5°	442.1	445.2	454.5	457.6	454.5
55°	407.0	409.1	415.3	416.3	413.2
57.5°	372.9	371.9	377.0	373.9	369.8
60°	335.7	335.7	335.7	332.6	326.4
62.5°	299.6	297.5	296.5	289.2	286.1
65°	263.4	258.2	257.2	247.9	242.8
67.5°	225.2	223.1	218.0	208.7	199.4
70°	189.0	187.0	180.8	169.4	163.2
72.5°	156.0	153.9	145.7	132.2	124.0
75°	124.0	121.9	112.6	98.1	95.0
77.5°	94.0	93.0	83.7	76.4	75.4
80°	68.2	67.1	58.9	58.9	57.8
82.5°	43.4	43.4	41.3	42.4	43.4
85°	22.7	24.8	26.9	27.9	28.9
87.5°	7.2	11.4	13.4	14.5	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)