

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: P297722

Luminaire Tested: **D3X-WG-23L82765-LD5-UNV-14-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297722
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-6500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2345.0 lumens
Efficiency: N/A
Efficacy: 108.6 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

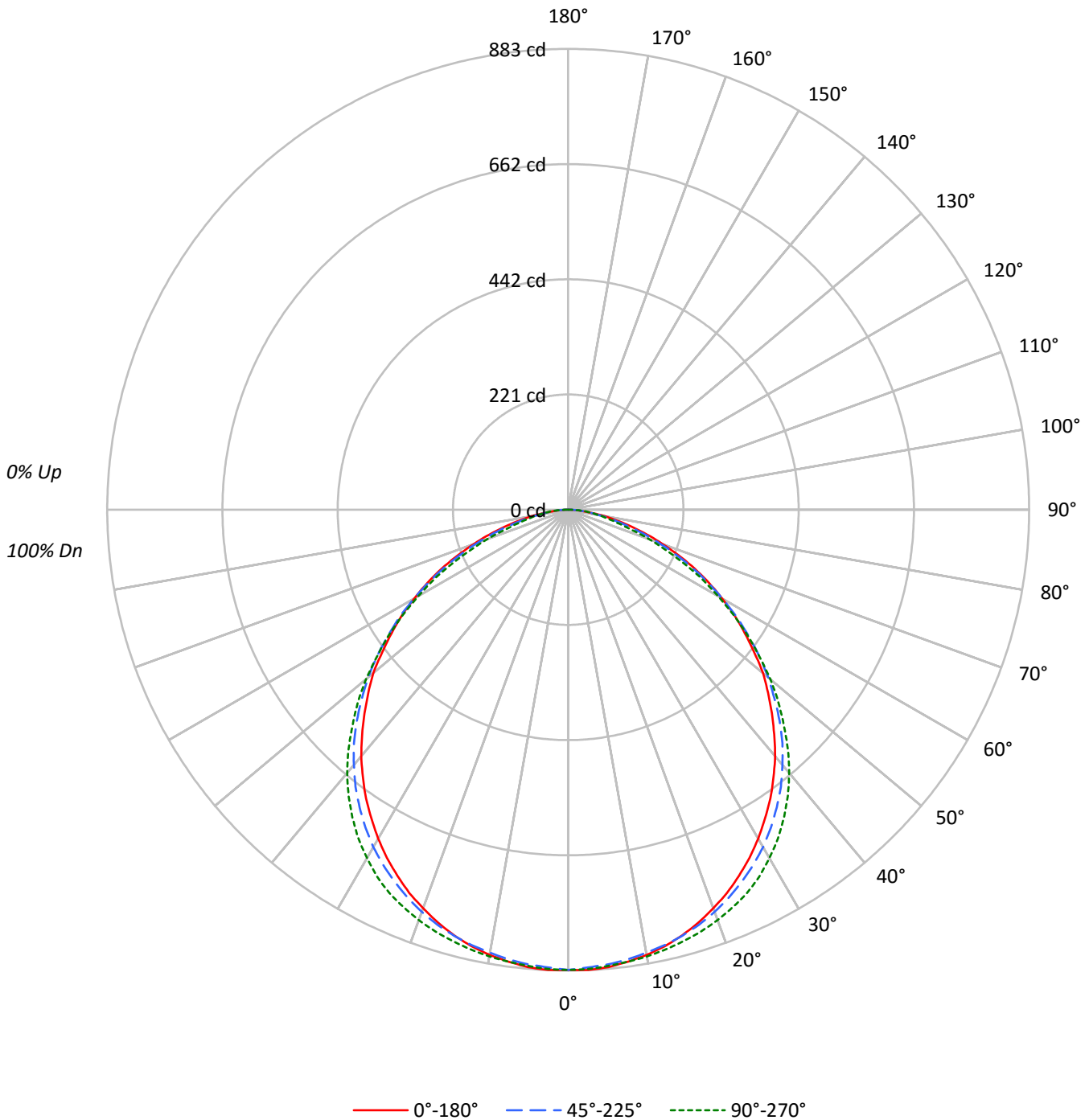
Input Watts (W): 21.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2373	2373	2373
5°	2377	2363	2371
10°	2367	2355	2375
15°	2352	2355	2384
20°	2327	2348	2396
25°	2298	2335	2407
30°	2261	2320	2395
35°	2218	2287	2367
40°	2166	2243	2313
45°	2099	2179	2223
50°	2041	2094	2116
55°	1939	1978	1968
60°	1834	1834	1784
65°	1703	1663	1569
70°	1510	1444	1304
75°	1308	1188	1003
80°	1072	927	910
85°	713	843	908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.4	3.6
10°-20°	239.3	10.2
20°-30°	363.8	15.5
30°-40°	435.5	18.6
40°-50°	439.3	18.7
50°-60°	374.2	16.0
60°-70°	255.9	10.9
70°-80°	122.5	5.2
80°-90°	31.0	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°	686.5	29.3
0°-40°	1122.0	47.8
0°-60°	1935.6	82.5
0°-90°	2345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2345.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	880	879	875	879	878	84
15°	844	842	845	855	856	238
25°	774	775	786	804	811	357
35°	675	677	696	716	720	422
45°	552	556	573	584	584	426
55°	413	415	422	423	420	370
65°	267	262	261	252	246	264
75°	126	124	114	100	96	134
85°	23	25	27	28	29	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	881.9	881.9	881.9	881.9	881.9
2.5°	883.0	881.9	877.7	881.9	880.9
5°	879.8	878.8	874.6	878.8	877.7
7.5°	873.5	872.5	869.3	873.5	873.5
10°	866.2	864.1	862.0	868.3	869.3
12.5°	856.7	854.6	854.6	862.0	863.0
15°	844.2	842.1	845.2	854.6	855.7
17.5°	829.5	828.4	833.7	845.2	847.3
20°	812.7	811.7	820.0	833.7	836.8
22.5°	794.9	794.9	804.3	820.0	824.2
25°	773.9	774.9	786.5	804.3	810.6
27.5°	751.9	754.0	767.6	787.5	792.8
30°	727.8	730.9	746.6	765.5	770.8
32.5°	701.5	704.7	722.5	742.4	747.7
35°	675.3	677.4	696.3	716.2	720.4
37.5°	646.0	649.1	669.0	686.9	691.1
40°	616.6	619.7	638.6	655.4	658.5
42.5°	584.1	588.3	607.2	620.8	622.9
45°	551.6	555.8	572.6	584.1	584.1
47.5°	519.1	521.2	535.9	547.4	546.3
50°	487.6	486.6	500.2	505.4	505.4
52.5°	448.8	452.0	461.4	464.5	461.4
55°	413.2	415.3	421.6	422.6	419.5
57.5°	378.6	377.5	382.8	379.6	375.4
60°	340.8	340.8	340.8	337.7	331.4
62.5°	304.1	302.0	301.0	293.6	290.5
65°	267.4	262.2	261.1	251.7	246.4
67.5°	228.6	226.5	221.3	211.8	202.4
70°	191.9	189.8	183.5	172.0	165.7
72.5°	158.3	156.2	147.9	134.2	125.8
75°	125.8	123.7	114.3	99.6	96.5
77.5°	95.4	94.4	84.9	77.6	76.6
80°	69.2	68.2	59.8	59.8	58.7
82.5°	44.0	44.0	41.9	43.0	44.0
85°	23.1	25.2	27.3	28.3	29.4
87.5°	7.3	11.5	13.6	14.7	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)