

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: P297789

Luminaire Tested: **D3X-WG-23L92765-LD5-UNV-14-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297789
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-23L92765-LD5-UNV-14-T1-W2A-5000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2074.0 lumens
Efficiency: N/A
Efficacy: 98.3 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

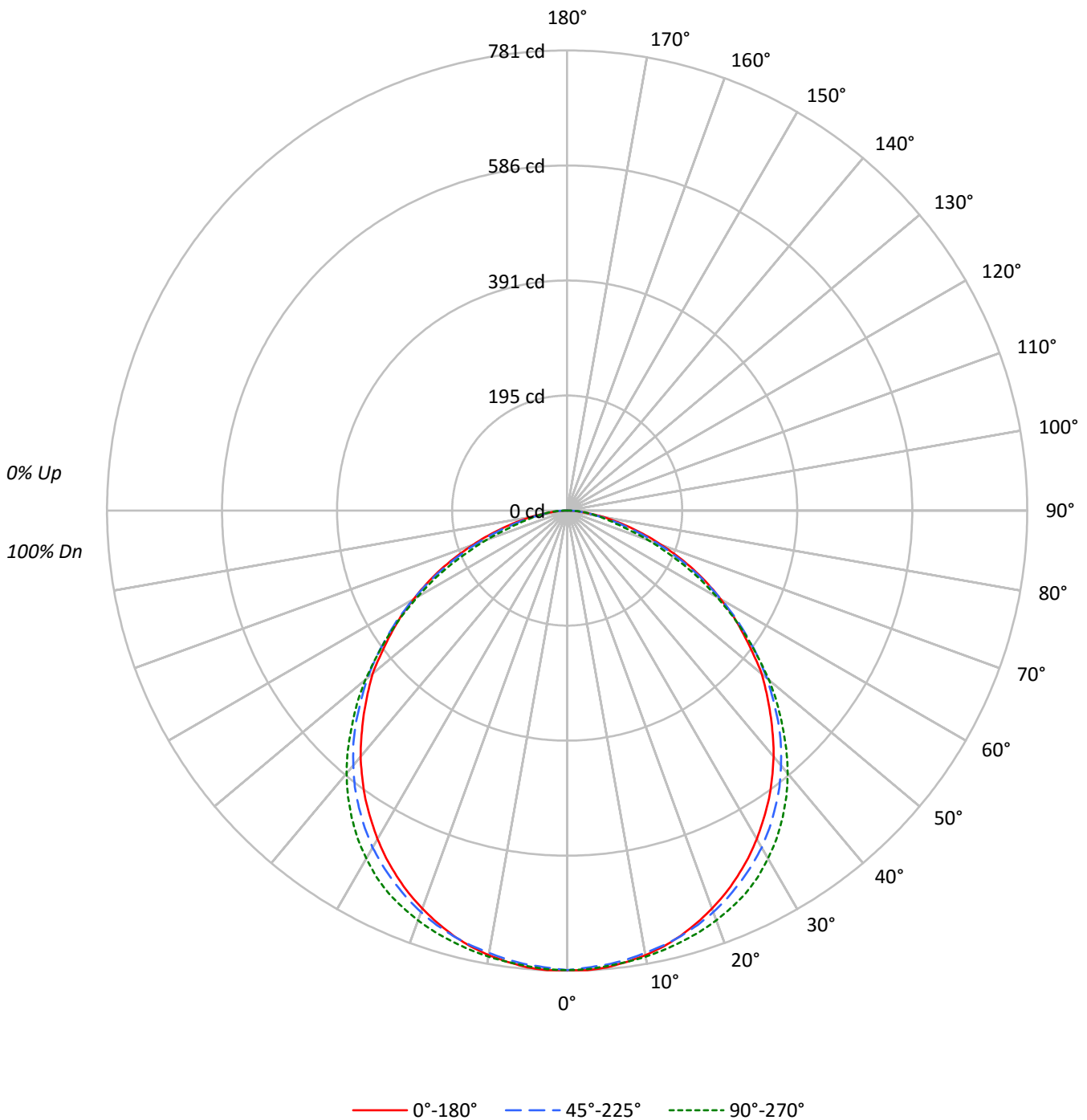
Input Watts (W): 21.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2099	2099	2099
5°	2102	2089	2097
10°	2093	2083	2101
15°	2080	2082	2108
20°	2058	2077	2119
25°	2032	2065	2129
30°	2000	2052	2118
35°	1962	2023	2093
40°	1916	1984	2046
45°	1856	1927	1966
50°	1806	1852	1871
55°	1714	1749	1741
60°	1622	1622	1577
65°	1506	1470	1388
70°	1335	1277	1153
75°	1157	1051	887
80°	948	820	804
85°	630	744	803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	3.6
10°-20°	211.7	10.2
20°-30°	321.7	15.5
30°-40°	385.2	18.6
40°-50°	388.6	18.7
50°-60°	331.0	16.0
60°-70°	226.3	10.9
70°-80°	108.4	5.2
80°-90°	27.5	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°	607.2	29.3
0°-40°	992.4	47.8
0°-60°	1711.9	82.5
0°-90°	2074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2074.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	778	777	774	777	776	74
15°	747	745	748	756	757	211
25°	684	685	696	711	717	315
35°	597	599	616	634	637	373
45°	488	492	506	517	517	377
55°	365	367	373	374	371	327
65°	236	232	231	223	218	233
75°	111	109	101	88	85	119
85°	20	22	24	25	26	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	780.0	780.0	780.0	780.0	780.0
2.5°	780.9	780.0	776.3	780.0	779.1
5°	778.1	777.2	773.5	777.2	776.3
7.5°	772.6	771.6	768.9	772.6	772.6
10°	766.1	764.2	762.4	767.9	768.9
12.5°	757.7	755.9	755.9	762.4	763.3
15°	746.6	744.7	747.5	755.9	756.8
17.5°	733.6	732.7	737.3	747.5	749.4
20°	718.8	717.9	725.3	737.3	740.1
22.5°	703.0	703.0	711.4	725.3	729.0
25°	684.5	685.4	695.6	711.4	716.9
27.5°	665.0	666.8	678.9	696.5	701.2
30°	643.7	646.4	660.4	677.0	681.7
32.5°	620.5	623.3	639.0	656.6	661.3
35°	597.3	599.1	615.8	633.5	637.2
37.5°	571.3	574.1	591.7	607.5	611.2
40°	545.3	548.1	564.8	579.7	582.4
42.5°	516.6	520.3	537.0	549.1	550.9
45°	487.8	491.6	506.4	516.6	516.6
47.5°	459.1	460.9	473.9	484.1	483.2
50°	431.3	430.3	442.4	447.0	447.0
52.5°	397.0	399.7	408.1	410.9	408.1
55°	365.4	367.3	372.8	373.8	371.0
57.5°	334.8	333.9	338.5	335.7	332.0
60°	301.4	301.4	301.4	298.6	293.1
62.5°	269.0	267.1	266.2	259.7	256.9
65°	236.5	231.9	230.9	222.6	218.0
67.5°	202.2	200.3	195.7	187.3	179.0
70°	169.7	167.9	162.3	152.1	146.5
72.5°	140.0	138.2	130.8	118.7	111.3
75°	111.3	109.4	101.1	88.1	85.3
77.5°	84.4	83.5	75.1	68.6	67.7
80°	61.2	60.3	52.9	52.9	51.9
82.5°	39.0	39.0	37.1	38.0	39.0
85°	20.4	22.3	24.1	25.0	26.0
87.5°	6.5	10.2	12.1	13.0	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)