

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: P297790

Luminaire Tested: **D3X-WG-23L92765-LD5-UNV-14-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297790
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-5500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2106.0 lumens
Efficiency: N/A
Efficacy: 99.3 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

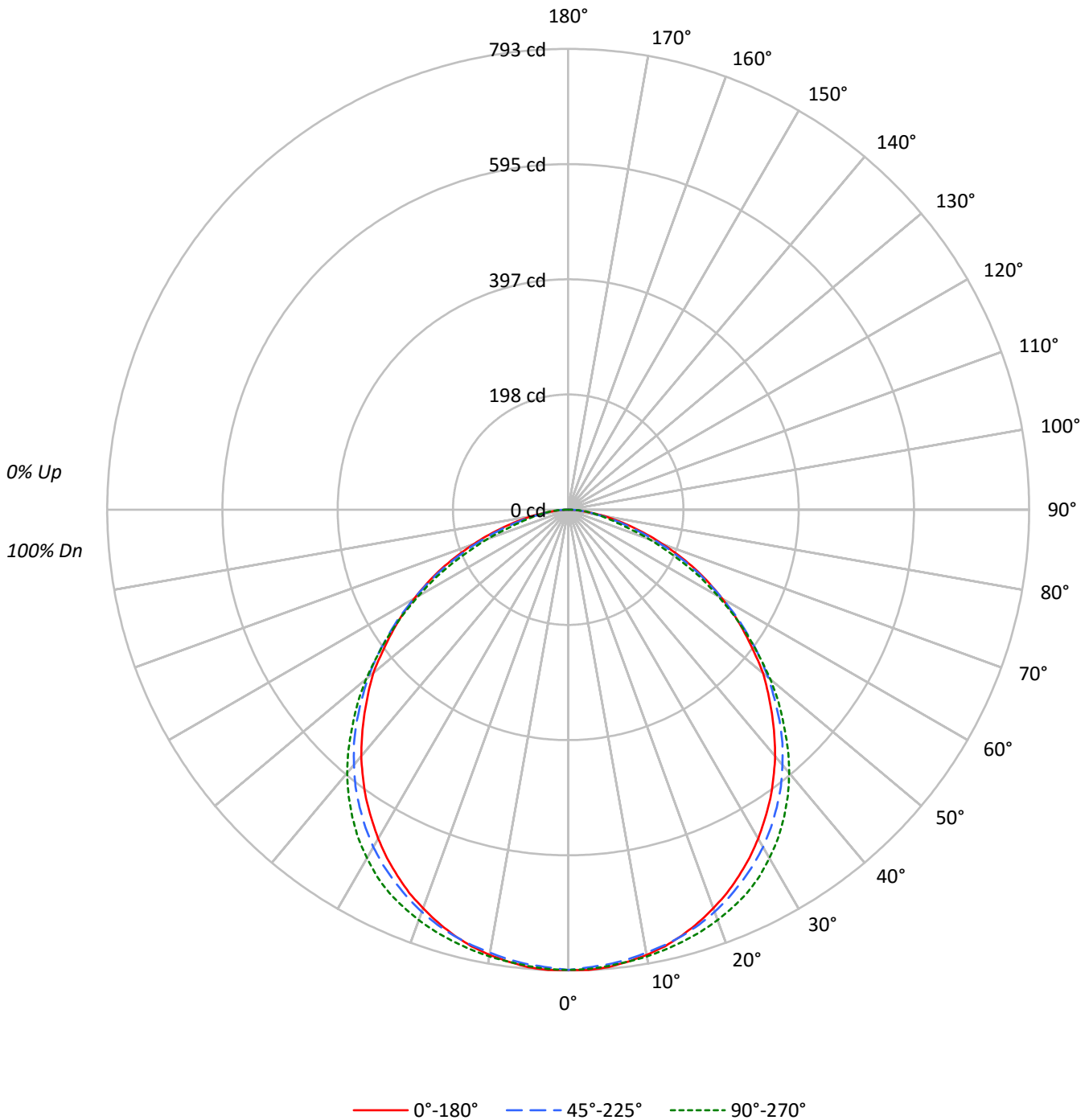
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2131	2131	2131
5°	2134	2122	2129
10°	2126	2115	2133
15°	2112	2115	2141
20°	2090	2109	2152
25°	2064	2097	2162
30°	2031	2083	2151
35°	1992	2054	2125
40°	1945	2015	2077
45°	1885	1957	1996
50°	1833	1881	1900
55°	1741	1776	1767
60°	1647	1647	1602
65°	1529	1493	1409
70°	1356	1297	1171
75°	1175	1068	900
80°	964	832	817
85°	639	756	815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	3.6
10°-20°	215.0	10.2
20°-30°	326.7	15.5
30°-40°	391.2	18.6
40°-50°	394.6	18.7
50°-60°	336.1	16.0
60°-70°	229.8	10.9
70°-80°	110.0	5.2
80°-90°	27.9	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°	616.5	29.3
0°-40°	1007.7	47.8
0°-60°	1738.3	82.5
0°-90°	2106.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2106.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	792	792	792	792	792	
5°	790	789	785	789	788	75
15°	758	756	759	768	768	214
25°	695	696	706	722	728	320
35°	606	608	625	643	647	379
45°	495	499	514	525	525	383
55°	371	373	379	380	377	332
65°	240	235	234	226	221	237
75°	113	111	103	90	87	121
85°	21	23	24	25	26	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	792.0	792.0	792.0	792.0	792.0
2.5°	793.0	792.0	788.3	792.0	791.1
5°	790.1	789.2	785.4	789.2	788.3
7.5°	784.5	783.6	780.7	784.5	784.5
10°	777.9	776.0	774.1	779.8	780.7
12.5°	769.4	767.5	767.5	774.1	775.1
15°	758.1	756.2	759.1	767.5	768.5
17.5°	744.9	744.0	748.7	759.1	760.9
20°	729.9	728.9	736.5	748.7	751.5
22.5°	713.9	713.9	722.3	736.5	740.2
25°	695.0	696.0	706.3	722.3	728.0
27.5°	675.2	677.1	689.4	707.3	712.0
30°	653.6	656.4	670.5	687.5	692.2
32.5°	630.0	632.9	648.9	666.8	671.5
35°	606.5	608.4	625.3	643.2	647.0
37.5°	580.1	583.0	600.8	616.9	620.6
40°	553.8	556.6	573.5	588.6	591.4
42.5°	524.6	528.3	545.3	557.5	559.4
45°	495.4	499.1	514.2	524.6	524.6
47.5°	466.2	468.1	481.2	491.6	490.7
50°	437.9	437.0	449.2	453.9	453.9
52.5°	403.1	405.9	414.4	417.2	414.4
55°	371.1	372.9	378.6	379.5	376.7
57.5°	340.0	339.0	343.7	340.9	337.2
60°	306.1	306.1	306.1	303.2	297.6
62.5°	273.1	271.2	270.3	263.7	260.9
65°	240.2	235.4	234.5	226.0	221.3
67.5°	205.3	203.4	198.7	190.2	181.8
70°	172.3	170.5	164.8	154.5	148.8
72.5°	142.2	140.3	132.8	120.5	113.0
75°	113.0	111.1	102.7	89.5	86.6
77.5°	85.7	84.8	76.3	69.7	68.7
80°	62.2	61.2	53.7	53.7	52.7
82.5°	39.6	39.6	37.7	38.6	39.6
85°	20.7	22.6	24.5	25.4	26.4
87.5°	6.6	10.4	12.2	13.2	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)