

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: P297623

Luminaire Tested: **D3X-WD-23L93050-LD5-UNV-14-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297623
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-23L93050-LD5-UNV-14-T1-W2A-5000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2099.0 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

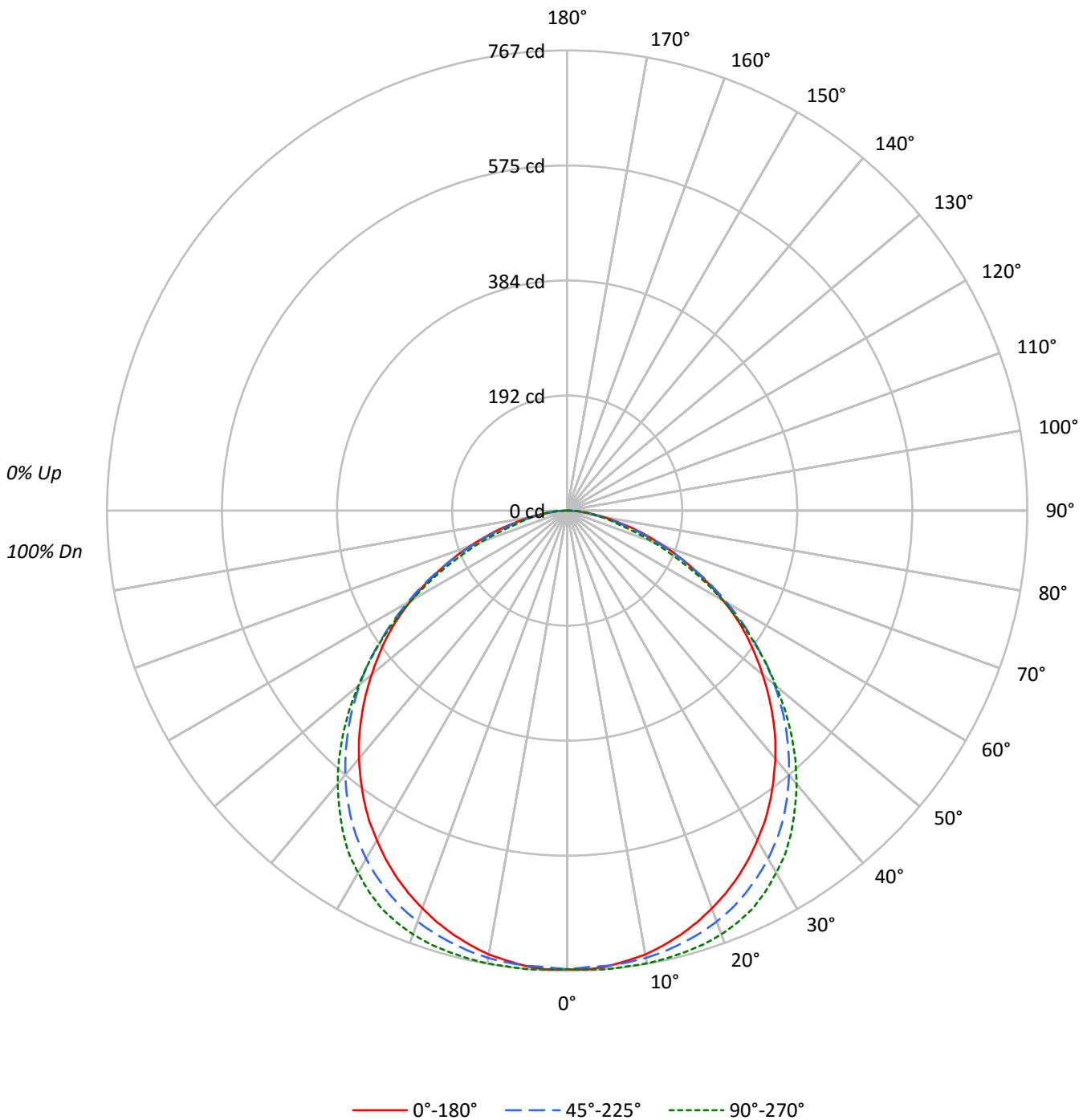
Input Watts (W): 21.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	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	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2058	2058	2058
5°	2060	2058	2073
10°	2053	2069	2094
15°	2039	2078	2122
20°	2020	2087	2152
25°	2000	2089	2173
30°	1971	2082	2166
35°	1939	2062	2142
40°	1896	2021	2090
45°	1843	1965	2011
50°	1781	1887	1902
55°	1719	1785	1776
60°	1619	1654	1614
65°	1491	1498	1414
70°	1334	1304	1186
75°	1159	1081	916
80°	930	841	841
85°	664	781	809



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	3.5
10°-20°	211.1	10.1
20°-30°	324.1	15.4
30°-40°	390.3	18.6
40°-50°	394.4	18.8
50°-60°	336.4	16.0
60°-70°	230.3	11.0
70°-80°	111.1	5.3
80°-90°	28.6	1.4
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°	607.8	29.0
0°-40°	998.1	47.6
0°-60°	1728.9	82.4
0°-90°	2099.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2099.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	763	763	762	766	767	72
15°	732	737	746	759	762	206
25°	674	684	704	724	732	310
35°	590	603	628	647	652	369
45°	484	498	516	528	528	374
55°	366	373	380	382	378	326
65°	234	237	235	227	222	232
75°	112	112	104	92	88	118
85°	22	23	25	26	26	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	764.6	764.6	764.6	764.6	764.6
2.5°	765.5	764.6	761.7	765.5	765.5
5°	762.7	762.7	761.7	766.4	767.4
7.5°	757.1	758.9	759.9	765.5	766.4
10°	751.4	753.3	757.1	764.6	766.4
12.5°	742.1	745.8	752.4	762.7	764.6
15°	731.8	737.4	745.8	758.9	761.7
17.5°	719.6	727.1	738.3	753.3	758.0
20°	705.5	714.0	728.9	745.8	751.4
22.5°	690.5	699.9	717.7	737.4	743.0
25°	673.7	684.0	703.7	724.3	731.8
27.5°	654.9	666.2	687.7	709.3	715.8
30°	634.3	646.5	669.9	691.5	697.1
32.5°	613.7	625.9	650.2	670.9	677.4
35°	590.3	603.4	627.8	647.4	652.1
37.5°	565.0	578.1	602.5	622.1	624.0
40°	539.7	552.8	575.3	593.1	595.0
42.5°	513.4	525.6	546.2	561.2	563.1
45°	484.4	497.5	516.3	528.4	528.4
47.5°	455.4	468.5	484.4	492.8	492.8
50°	425.4	437.6	450.7	455.4	454.4
52.5°	395.4	406.6	417.9	418.8	416.9
55°	366.3	372.9	380.4	382.3	378.5
57.5°	334.5	340.1	344.8	342.0	339.2
60°	300.8	306.4	307.3	302.6	299.8
62.5°	268.0	272.7	272.7	265.2	260.5
65°	234.2	237.0	235.2	226.7	222.1
67.5°	202.4	204.3	200.5	192.1	184.6
70°	169.6	170.5	165.8	155.5	150.8
72.5°	139.6	140.5	134.9	122.7	117.1
75°	111.5	111.5	104.0	91.8	88.1
77.5°	83.4	86.2	77.8	71.2	71.2
80°	60.0	62.8	54.3	55.3	54.3
82.5°	39.4	42.2	39.4	39.4	39.4
85°	21.5	23.4	25.3	26.2	26.2
87.5°	6.6	11.2	12.2	13.1	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)