

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: P297549

Luminaire Tested: **D3X-WD-23L83050-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297549
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-23L83050-LD5-UNV-14-T1-W2A-3000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2124.0 lumens
Efficiency: N/A
Efficacy: 103.1 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

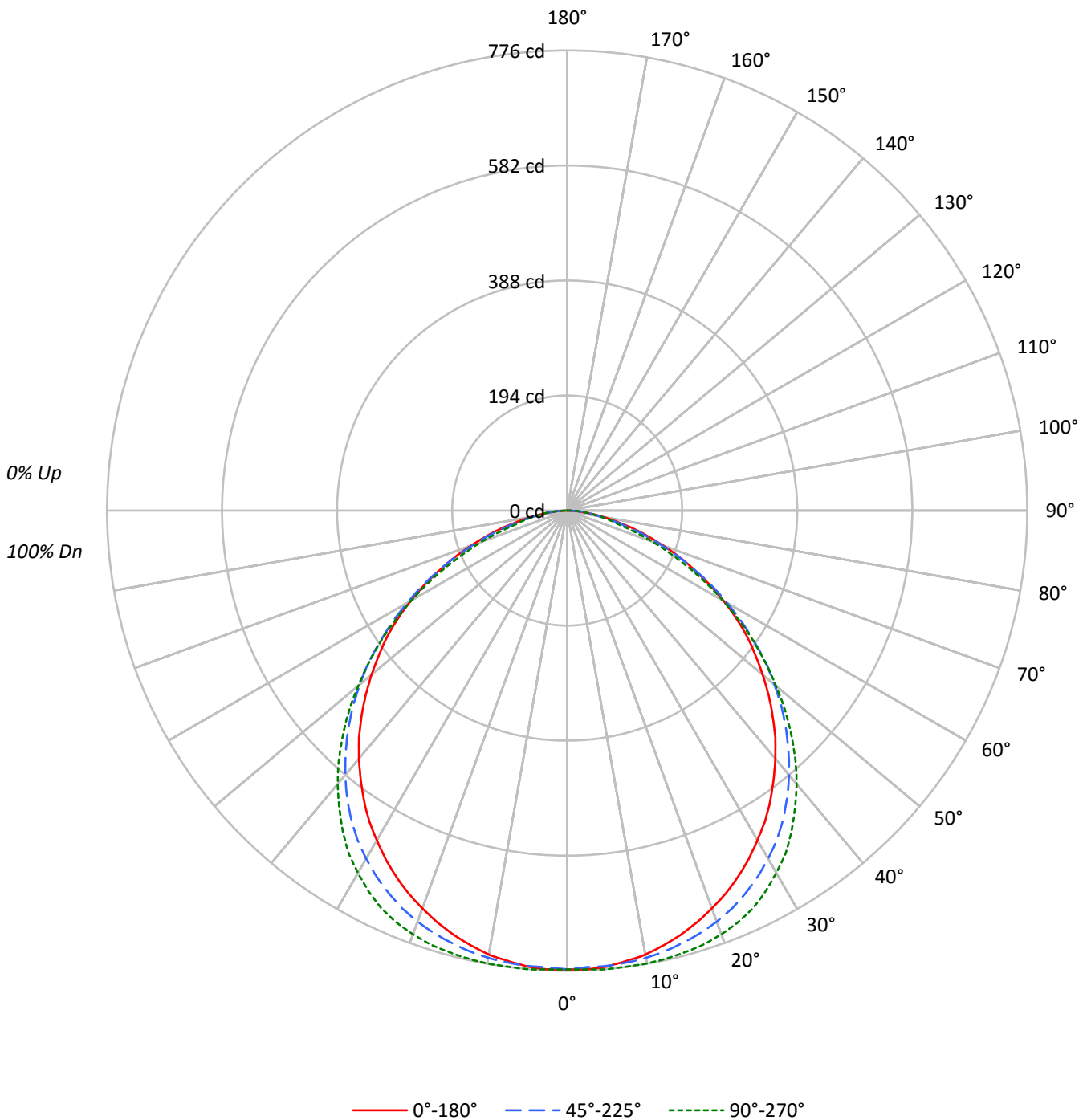
Input Watts (W): 20.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2082	2082	2082
5°	2085	2082	2098
10°	2078	2093	2119
15°	2063	2103	2147
20°	2044	2112	2178
25°	2024	2114	2199
30°	1995	2106	2192
35°	1962	2087	2168
40°	1918	2045	2115
45°	1866	1988	2035
50°	1802	1909	1925
55°	1739	1806	1797
60°	1638	1674	1633
65°	1509	1515	1431
70°	1350	1320	1201
75°	1173	1094	926
80°	941	852	852
85°	673	790	818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	3.5
10°-20°	213.6	10.1
20°-30°	327.9	15.4
30°-40°	394.9	18.6
40°-50°	399.1	18.8
50°-60°	340.4	16.0
60°-70°	233.0	11.0
70°-80°	112.4	5.3
80°-90°	29.0	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
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0°-30°	615.1	29.0
0°-40°	1010.0	47.6
0°-60°	1749.5	82.4
0°-90°	2124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2124.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	772	772	771	776	776	73
15°	740	746	755	768	771	209
25°	682	692	712	733	740	314
35°	597	611	635	655	660	373
45°	490	503	522	535	535	378
55°	371	377	385	387	383	330
65°	237	240	238	229	225	235
75°	113	113	105	93	89	120
85°	22	24	26	26	26	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	773.7	773.7	773.7	773.7	773.7
2.5°	774.6	773.7	770.8	774.6	774.6
5°	771.8	771.8	770.8	775.6	776.5
7.5°	766.1	768.0	768.9	774.6	775.6
10°	760.4	762.3	766.1	773.7	775.6
12.5°	750.9	754.7	761.3	771.8	773.7
15°	740.5	746.2	754.7	768.0	770.8
17.5°	728.1	735.7	747.1	762.3	767.0
20°	713.9	722.5	737.6	754.7	760.4
22.5°	698.8	708.2	726.3	746.2	751.9
25°	681.7	692.1	712.0	732.9	740.5
27.5°	662.7	674.1	695.9	717.7	724.4
30°	641.9	654.2	677.9	699.7	705.4
32.5°	621.0	633.3	658.0	678.8	685.5
35°	597.3	610.6	635.2	655.1	659.9
37.5°	571.7	585.0	609.6	629.5	631.4
40°	546.1	559.4	582.1	600.2	602.1
42.5°	519.6	531.9	552.7	567.9	569.8
45°	490.2	503.4	522.4	534.7	534.7
47.5°	460.8	474.1	490.2	498.7	498.7
50°	430.4	442.8	456.0	460.8	459.8
52.5°	400.1	411.5	422.9	423.8	421.9
55°	370.7	377.3	384.9	386.8	383.0
57.5°	338.5	344.2	348.9	346.1	343.2
60°	304.3	310.0	311.0	306.2	303.4
62.5°	271.2	275.9	275.9	268.3	263.6
65°	237.0	239.9	238.0	229.4	224.7
67.5°	204.8	206.7	202.9	194.4	186.8
70°	171.6	172.6	167.8	157.4	152.6
72.5°	141.3	142.2	136.5	124.2	118.5
75°	112.8	112.8	105.2	92.9	89.1
77.5°	84.4	87.2	78.7	72.1	72.1
80°	60.7	63.5	55.0	55.9	55.0
82.5°	39.8	42.7	39.8	39.8	39.8
85°	21.8	23.7	25.6	26.5	26.5
87.5°	6.6	11.4	12.3	13.3	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)