

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: P297760

Luminaire Tested: **D3X-WG-23L93050-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297760
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-23L93050-LD5-UNV-14-T1-W2A-3500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1907.0 lumens
Efficiency: N/A
Efficacy: 90.8 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

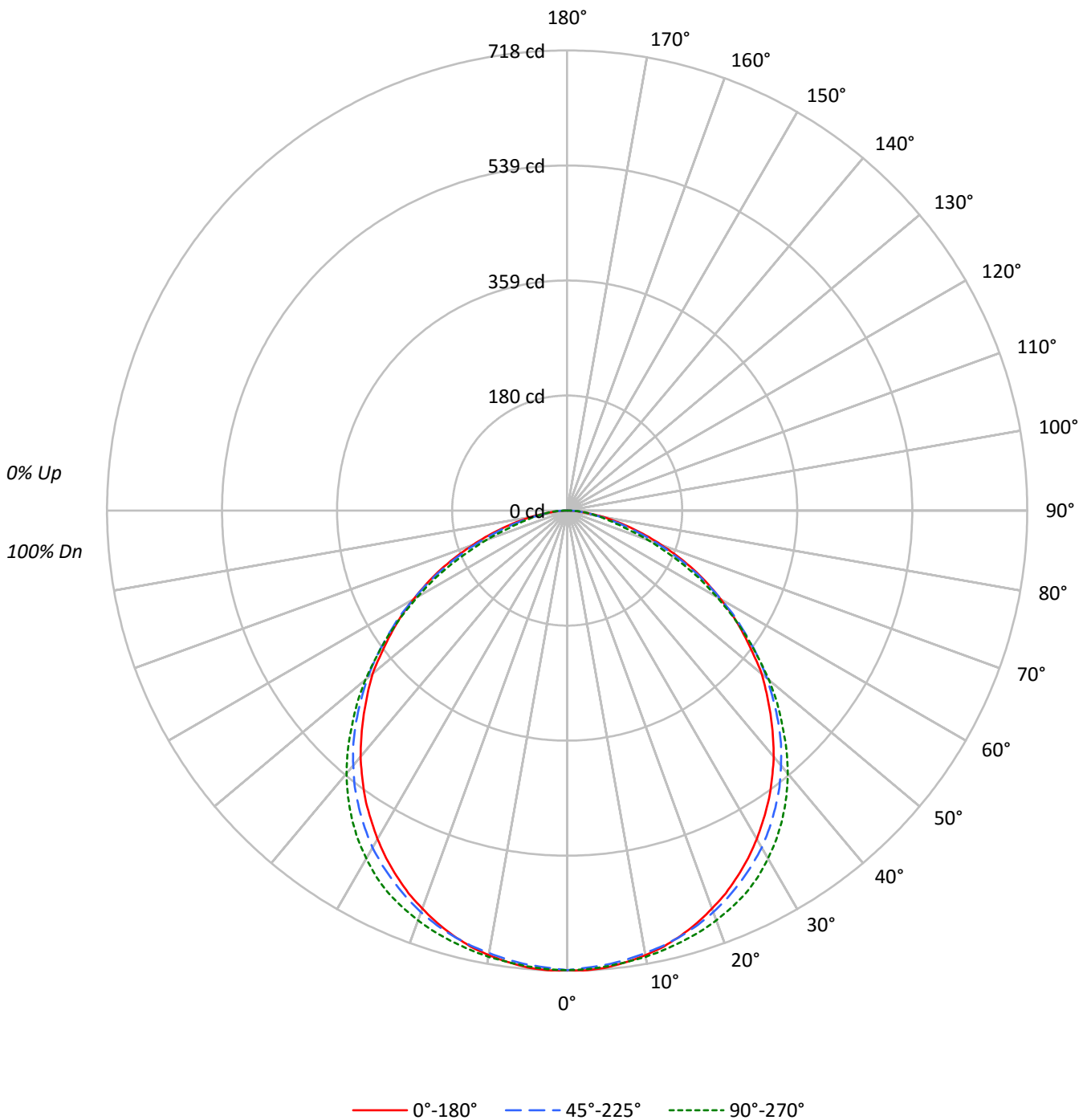
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1930	1930	1930
5°	1933	1921	1928
10°	1925	1915	1932
15°	1913	1915	1939
20°	1893	1910	1949
25°	1869	1899	1957
30°	1839	1887	1948
35°	1804	1860	1925
40°	1761	1824	1881
45°	1707	1772	1808
50°	1660	1703	1721
55°	1576	1608	1600
60°	1492	1492	1450
65°	1385	1352	1276
70°	1228	1174	1060
75°	1064	967	816
80°	872	753	741
85°	580	685	738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	3.6
10°-20°	194.6	10.2
20°-30°	295.8	15.5
30°-40°	354.2	18.6
40°-50°	357.3	18.7
50°-60°	304.3	16.0
60°-70°	208.1	10.9
70°-80°	99.6	5.2
80°-90°	25.2	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°	558.3	29.3
0°-40°	912.5	47.8
0°-60°	1574.1	82.5
0°-90°	1907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	717	717	717	717	717	
5°	716	715	711	715	714	68
15°	686	685	687	695	696	194
25°	629	630	640	654	659	290
35°	549	551	566	582	586	343
45°	449	452	466	475	475	346
55°	336	338	343	344	341	301
65°	218	213	212	205	200	214
75°	102	101	93	81	78	109
85°	19	20	22	23	24	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	717.2	717.2	717.2	717.2	717.2
2.5°	718.0	717.2	713.8	717.2	716.3
5°	715.5	714.6	711.2	714.6	713.8
7.5°	710.4	709.5	707.0	710.4	710.4
10°	704.4	702.7	701.0	706.1	707.0
12.5°	696.7	695.0	695.0	701.0	701.8
15°	686.5	684.8	687.3	695.0	695.9
17.5°	674.5	673.7	678.0	687.3	689.0
20°	660.9	660.1	666.9	678.0	680.5
22.5°	646.4	646.4	654.1	666.9	670.3
25°	629.4	630.2	639.6	654.1	659.2
27.5°	611.4	613.1	624.2	640.4	644.7
30°	591.8	594.4	607.2	622.5	626.8
32.5°	570.5	573.1	587.6	603.8	608.0
35°	549.2	550.9	566.2	582.4	585.9
37.5°	525.3	527.9	544.1	558.6	562.0
40°	501.4	504.0	519.3	533.0	535.5
42.5°	475.0	478.4	493.8	504.8	506.6
45°	448.6	452.0	465.6	475.0	475.0
47.5°	422.1	423.8	435.8	445.2	444.3
50°	396.5	395.7	406.8	411.0	411.0
52.5°	365.0	367.5	375.2	377.8	375.2
55°	336.0	337.7	342.8	343.7	341.1
57.5°	307.9	307.0	311.3	308.7	305.3
60°	277.2	277.2	277.2	274.6	269.5
62.5°	247.3	245.6	244.7	238.8	236.2
65°	217.5	213.2	212.3	204.7	200.4
67.5°	185.9	184.2	179.9	172.3	164.6
70°	156.1	154.4	149.2	139.9	134.7
72.5°	128.8	127.1	120.2	109.2	102.3
75°	102.3	100.6	93.0	81.0	78.5
77.5°	77.6	76.8	69.1	63.1	62.3
80°	56.3	55.4	48.6	48.6	47.8
82.5°	35.8	35.8	34.1	35.0	35.8
85°	18.8	20.5	22.2	23.0	23.9
87.5°	6.0	9.4	11.1	11.9	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)