

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: P297762

Luminaire Tested: **D3X-WG-23L93050-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297762
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-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2096.0 lumens
Efficiency: N/A
Efficacy: 97.5 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

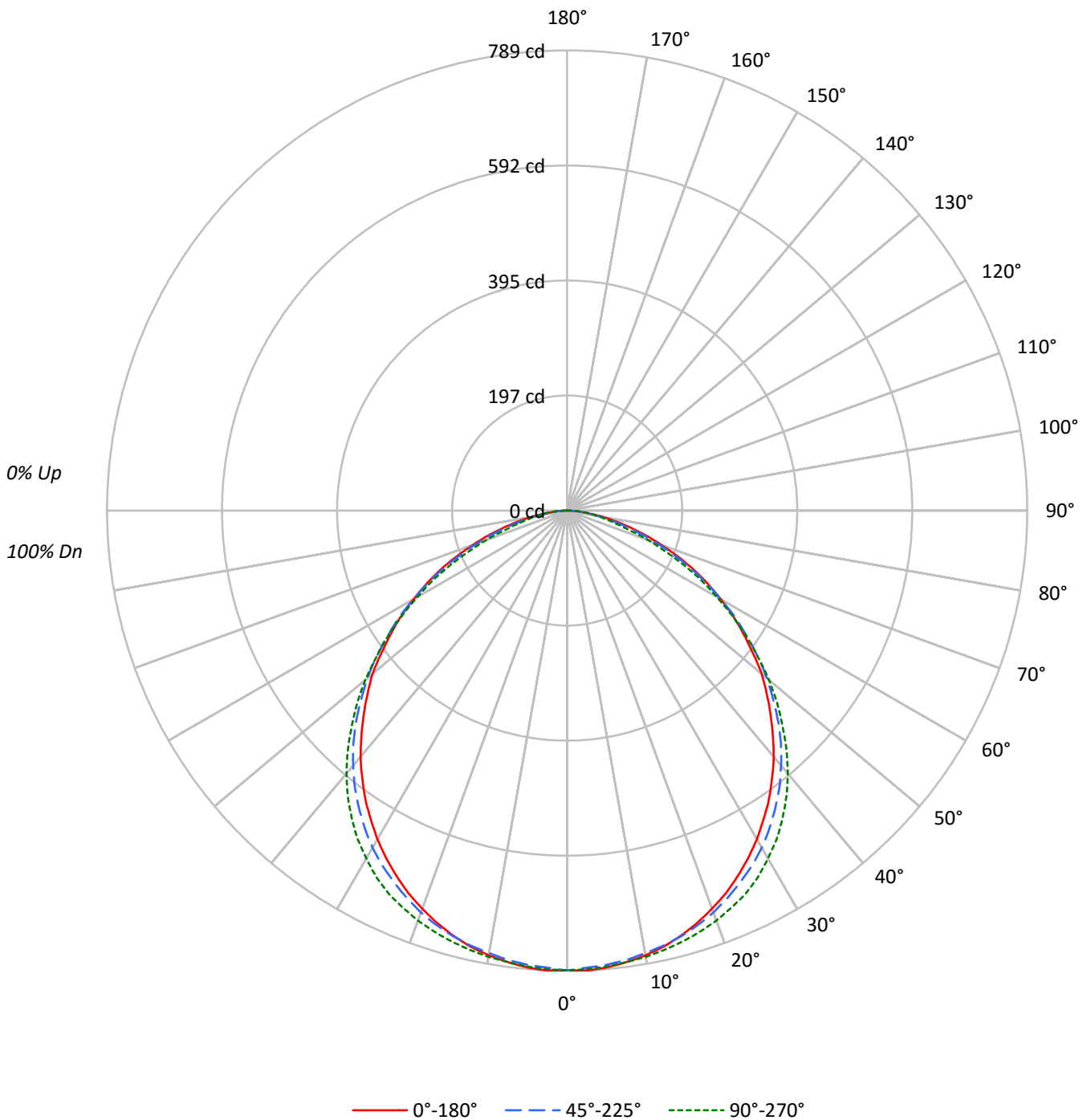
Input Watts (W): 21.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2121	2121	2121
5°	2124	2112	2119
10°	2115	2105	2123
15°	2102	2105	2131
20°	2080	2099	2142
25°	2054	2087	2151
30°	2021	2074	2141
35°	1983	2045	2115
40°	1936	2005	2068
45°	1876	1948	1987
50°	1824	1872	1891
55°	1733	1768	1759
60°	1639	1639	1594
65°	1522	1486	1403
70°	1349	1290	1165
75°	1170	1063	896
80°	959	828	814
85°	636	753	809



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	3.6
10°-20°	213.9	10.2
20°-30°	325.2	15.5
30°-40°	389.3	18.6
40°-50°	392.7	18.7
50°-60°	334.5	16.0
60°-70°	228.7	10.9
70°-80°	109.5	5.2
80°-90°	27.7	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°	613.6	29.3
0°-40°	1002.9	47.8
0°-60°	1730.1	82.5
0°-90°	2096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	788	788	788	788	788	
5°	786	786	782	786	784	75
15°	754	753	756	764	765	213
25°	692	693	703	719	724	319
35°	604	606	622	640	644	377
45°	493	497	512	522	522	381
55°	369	371	377	378	375	331
65°	239	234	233	225	220	236
75°	112	111	102	89	86	120
85°	21	22	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°	788.3	788.3	788.3	788.3	788.3
2.5°	789.2	788.3	784.5	788.3	787.3
5°	786.4	785.5	781.7	785.5	784.5
7.5°	780.8	779.8	777.0	780.8	780.8
10°	774.2	772.3	770.5	776.1	777.0
12.5°	765.8	763.9	763.9	770.5	771.4
15°	754.5	752.6	755.5	763.9	764.8
17.5°	741.4	740.5	745.2	755.5	757.3
20°	726.4	725.5	733.0	745.2	748.0
22.5°	710.5	710.5	718.9	733.0	736.7
25°	691.7	692.7	703.0	718.9	724.5
27.5°	672.0	673.9	686.1	703.9	708.6
30°	650.5	653.3	667.4	684.2	688.9
32.5°	627.1	629.9	645.8	663.6	668.3
35°	603.6	605.5	622.4	640.2	643.9
37.5°	577.4	580.2	598.0	613.9	617.7
40°	551.1	553.9	570.8	585.8	588.6
42.5°	522.1	525.8	542.7	554.9	556.8
45°	493.0	496.8	511.8	522.1	522.1
47.5°	464.0	465.8	479.0	489.3	488.3
50°	435.8	434.9	447.1	451.8	451.8
52.5°	401.2	404.0	412.4	415.2	412.4
55°	369.3	371.2	376.8	377.7	374.9
57.5°	338.4	337.4	342.1	339.3	335.6
60°	304.6	304.6	304.6	301.8	296.2
62.5°	271.8	269.9	269.0	262.4	259.6
65°	239.0	234.3	233.4	225.0	220.3
67.5°	204.3	202.5	197.8	189.3	180.9
70°	171.5	169.7	164.0	153.7	148.1
72.5°	141.5	139.7	132.2	120.0	112.5
75°	112.5	110.6	102.2	89.0	86.2
77.5°	85.3	84.4	75.9	69.4	68.4
80°	61.9	60.9	53.4	53.4	52.5
82.5°	39.4	39.4	37.5	38.4	39.4
85°	20.6	22.5	24.4	25.3	26.2
87.5°	6.6	10.3	12.2	13.1	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)