

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: P298055

Luminaire Tested: **D3X-WD-20L93050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-20L93050-LD5-UNV-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1704.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

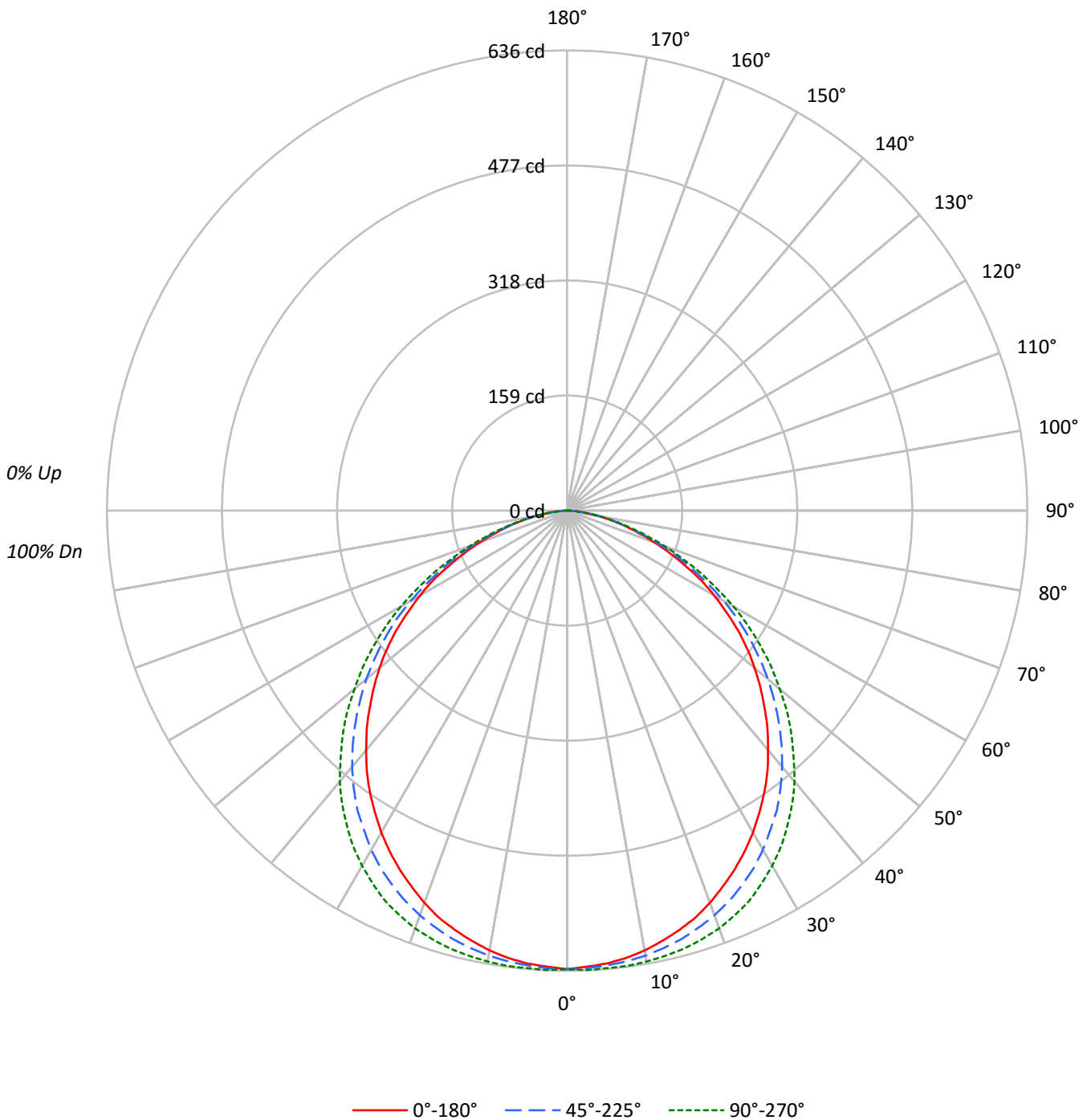
Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1706	1706	1706
5°	1697	1704	1714
10°	1687	1707	1729
15°	1671	1707	1745
20°	1652	1705	1760
25°	1626	1697	1768
30°	1596	1682	1761
35°	1561	1660	1745
40°	1518	1624	1717
45°	1469	1574	1668
50°	1417	1517	1605
55°	1351	1442	1532
60°	1264	1343	1432
65°	1145	1215	1291
70°	1010	1061	1119
75°	868	887	925
80°	696	711	725
85°	509	454	454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	3.5
10°-20°	173.0	10.2
20°-30°	263.2	15.4
30°-40°	314.9	18.5
40°-50°	318.3	18.7
50°-60°	273.9	16.1
60°-70°	189.1	11.1
70°-80°	91.7	5.4
80°-90°	19.9	1.2
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°	496.2	29.1
0°-40°	811.1	47.6
0°-60°	1403.3	82.4
0°-90°	1704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1704.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	634	634	634	634	634	
5°	628	629	631	634	635	60
15°	600	604	613	622	626	169
25°	548	554	571	589	595	252
35°	475	483	505	524	531	297
45°	386	394	414	431	438	298
55°	288	293	307	321	326	257
65°	180	182	191	199	203	179
75°	84	82	85	88	89	89
85°	16	16	15	15	15	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	633.8	633.8	633.8	633.8	633.8
2.5°	631.0	631.0	632.9	634.7	635.6
5°	628.3	629.2	631.0	633.8	634.7
7.5°	623.7	624.6	628.3	632.9	634.7
10°	617.3	619.1	624.6	630.1	632.9
12.5°	609.0	612.7	619.1	626.5	630.1
15°	599.9	603.5	612.7	621.9	626.5
17.5°	589.8	593.4	604.4	616.4	620.9
20°	576.9	582.4	595.3	609.0	614.5
22.5°	562.2	569.6	584.3	598.9	605.4
25°	547.6	554.0	571.4	588.8	595.3
27.5°	531.1	538.4	557.7	575.1	581.5
30°	513.6	521.0	541.2	560.4	566.8
32.5°	494.4	503.5	522.8	543.0	550.3
35°	475.1	483.4	505.4	523.7	531.1
37.5°	454.9	462.3	484.3	503.5	510.9
40°	432.0	440.3	462.3	481.5	488.9
42.5°	410.0	418.2	438.4	456.8	463.2
45°	386.1	393.5	413.7	431.1	438.4
47.5°	362.3	370.6	388.0	405.4	412.7
50°	338.4	344.9	362.3	378.8	383.4
52.5°	313.7	319.2	334.8	349.5	355.9
55°	288.0	292.6	307.3	321.0	326.5
57.5°	260.5	266.0	279.7	289.8	296.3
60°	234.8	237.6	249.5	259.6	266.0
62.5°	209.1	210.0	219.2	229.3	233.0
65°	179.8	182.5	190.8	199.0	202.7
67.5°	153.2	155.9	162.3	168.8	171.5
70°	128.4	128.4	134.8	139.4	142.2
72.5°	103.6	104.6	109.1	111.9	114.7
75°	83.5	81.6	85.3	88.1	89.0
77.5°	62.4	61.5	64.2	65.1	67.0
80°	44.9	44.9	45.9	46.8	46.8
82.5°	29.4	29.4	30.3	28.4	27.5
85°	16.5	16.5	14.7	14.7	14.7
87.5°	5.5	5.5	5.5	6.4	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)