

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: P296864

Luminaire Tested: **D3X-WD-45L93050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-45L93050-LD5-UNV-24-T1-W2A-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3321.0 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

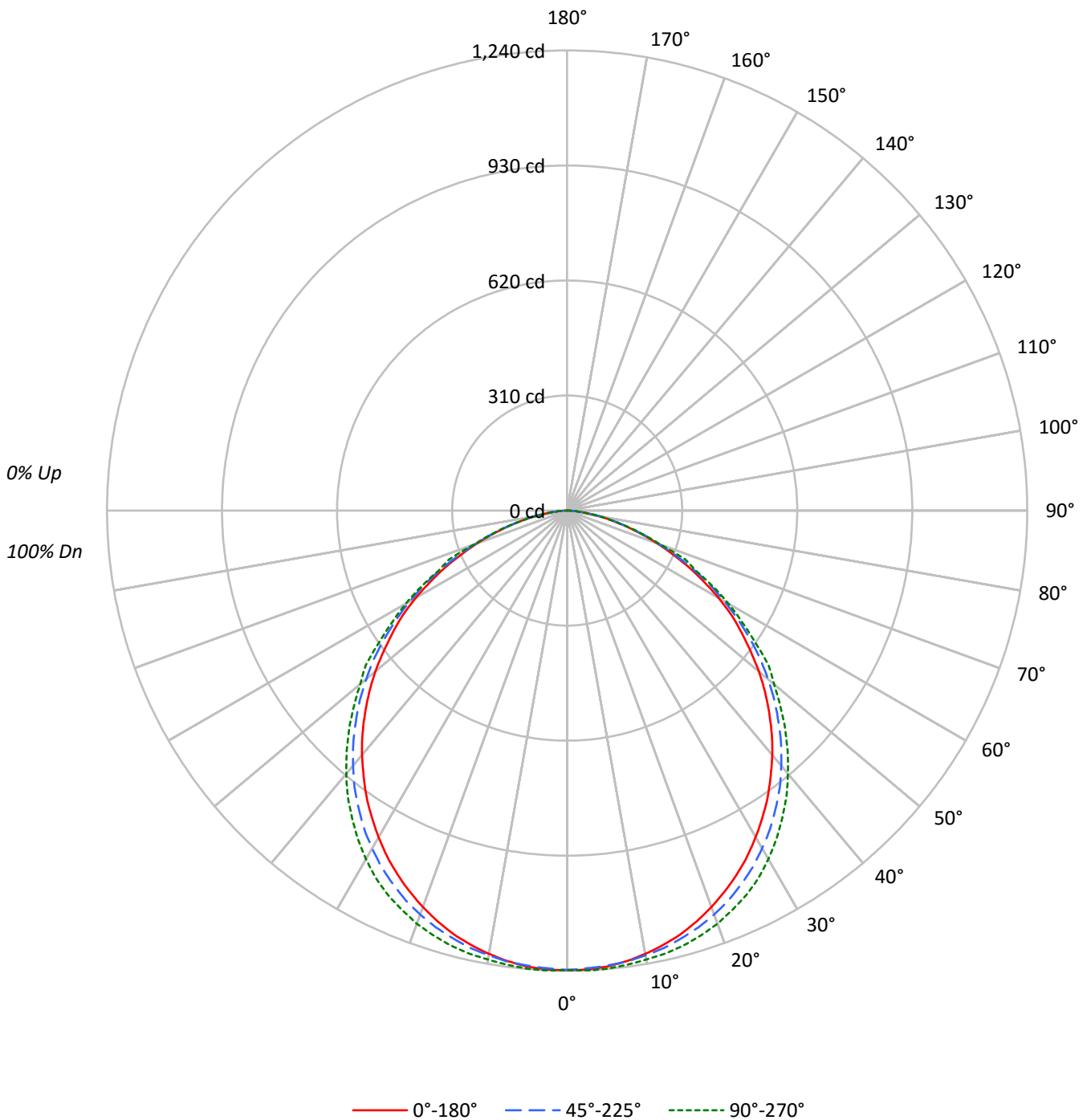
Input Watts (W): 32.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	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	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	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1666	1666	1666
5°	1666	1662	1674
10°	1657	1662	1678
15°	1646	1662	1690
20°	1628	1658	1696
25°	1606	1649	1696
30°	1579	1633	1685
35°	1548	1609	1660
40°	1511	1576	1626
45°	1465	1533	1580
50°	1412	1479	1524
55°	1347	1409	1451
60°	1270	1318	1350
65°	1153	1191	1214
70°	1013	1036	1050
75°	855	867	873
80°	683	693	674
85°	460	479	460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	3.5
10°-20°	337.4	10.2
20°-30°	511.9	15.4
30°-40°	611.2	18.4
40°-50°	618.8	18.6
50°-60°	534.9	16.1
60°-70°	370.7	11.2
70°-80°	179.4	5.4
80°-90°	39.4	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°	966.7	29.1
0°-40°	1577.9	47.5
0°-60°	2731.5	82.2
0°-90°	3321.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3321.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1238	1238	1238	1238	1238	
5°	1233	1232	1231	1237	1239	117
15°	1182	1184	1193	1207	1213	333
25°	1082	1089	1110	1133	1143	498
35°	942	951	980	1004	1010	589
45°	770	780	806	826	830	594
55°	574	580	601	626	618	513
65°	362	366	374	380	381	358
75°	164	166	167	166	168	176
85°	30	32	31	30	30	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1238.0	1238.0	1238.0	1238.0	1238.0
2.5°	1238.0	1236.9	1234.5	1238.0	1240.4
5°	1233.3	1232.1	1230.9	1236.9	1239.2
7.5°	1224.9	1224.9	1226.1	1232.1	1234.5
10°	1213.0	1214.2	1216.6	1226.1	1228.5
12.5°	1198.7	1201.1	1207.1	1217.8	1222.6
15°	1182.0	1184.4	1192.8	1207.1	1213.0
17.5°	1160.6	1165.4	1177.3	1194.0	1199.9
20°	1136.8	1142.7	1158.2	1177.3	1184.4
22.5°	1110.5	1116.5	1136.8	1157.0	1164.2
25°	1081.9	1089.1	1110.5	1133.2	1142.7
27.5°	1051.0	1059.3	1083.1	1107.0	1116.5
30°	1016.4	1025.9	1051.0	1076.0	1084.3
32.5°	979.5	989.0	1017.6	1041.4	1049.8
35°	942.5	950.9	979.5	1004.5	1010.5
37.5°	900.8	910.4	941.3	962.8	971.1
40°	860.3	869.8	897.3	918.7	925.9
42.5°	816.2	825.8	853.2	873.4	879.4
45°	769.8	780.5	805.5	825.8	830.5
47.5°	723.3	731.6	757.8	775.7	779.3
50°	674.4	682.8	706.6	724.5	728.1
52.5°	623.2	636.3	655.4	668.5	684.0
55°	574.3	580.3	600.6	625.6	618.4
57.5°	525.5	529.1	545.7	556.5	558.8
60°	471.9	476.6	489.7	495.7	501.7
62.5°	415.9	419.4	434.9	440.9	443.3
65°	362.2	365.8	374.2	380.1	381.3
67.5°	307.4	311.0	318.2	322.9	344.4
70°	257.4	259.8	263.3	272.9	266.9
72.5°	209.7	210.9	214.5	214.5	215.7
75°	164.4	165.6	166.8	165.6	168.0
77.5°	122.7	125.1	126.3	125.1	123.9
80°	88.2	90.6	89.4	87.0	87.0
82.5°	57.2	58.4	57.2	56.0	56.0
85°	29.8	32.2	31.0	29.8	29.8
87.5°	10.7	11.9	13.1	14.3	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)