

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: P297147

Luminaire Tested: **D3X-WG-45L93050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-45L93050-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3994.0 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

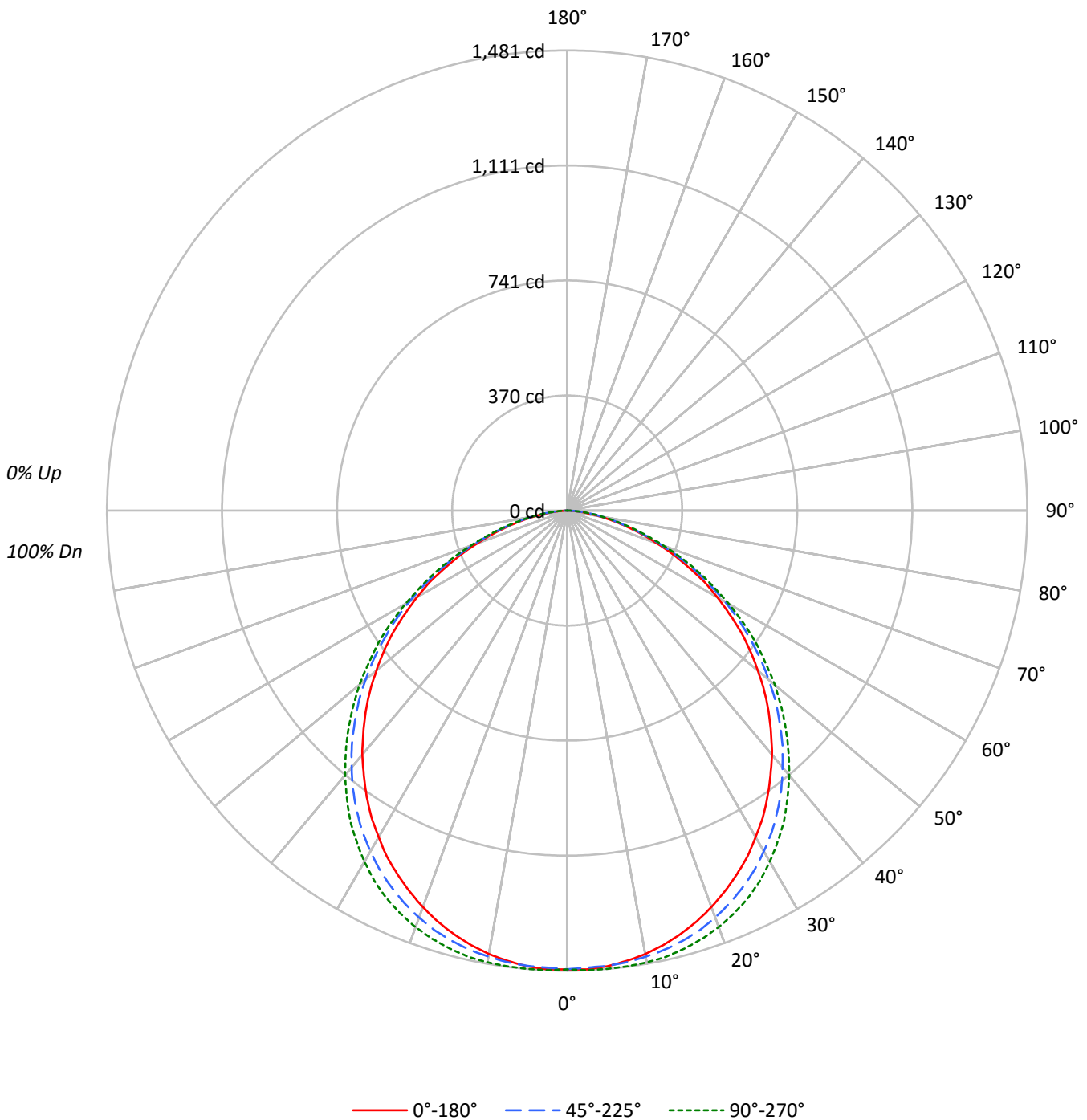
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	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	47	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	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1987	1987	1987
5°	1988	1987	2000
10°	1980	1992	2017
15°	1965	1997	2033
20°	1944	1995	2042
25°	1918	1986	2043
30°	1885	1967	2027
35°	1847	1939	2000
40°	1802	1895	1953
45°	1745	1840	1895
50°	1677	1773	1827
55°	1604	1685	1738
60°	1502	1579	1617
65°	1371	1444	1480
70°	1205	1266	1300
75°	1019	1071	1108
80°	809	887	909
85°	553	662	641



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.3	3.5
10°-20°	405.0	10.1
20°-30°	615.5	15.4
30°-40°	734.5	18.4
40°-50°	741.8	18.6
50°-60°	639.1	16.0
60°-70°	445.5	11.2
70°-80°	220.8	5.5
80°-90°	51.5	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°	1160.8	29.1
0°-40°	1895.3	47.5
0°-60°	3276.2	82.0
0°-90°	3994.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3994.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1476	1476	1476	1476	1476	
5°	1472	1471	1471	1478	1481	140
15°	1411	1418	1434	1452	1459	398
25°	1292	1309	1338	1365	1376	595
35°	1124	1143	1180	1208	1218	703
45°	917	937	967	990	996	707
55°	684	698	718	735	741	610
65°	431	439	454	458	465	428
75°	196	199	206	210	213	211
85°	36	43	43	40	42	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1476.5	1476.5	1476.5	1476.5	1476.5
2.5°	1477.9	1475.1	1472.2	1477.9	1480.8
5°	1472.2	1470.8	1470.8	1477.9	1480.8
7.5°	1462.2	1462.2	1466.5	1476.5	1479.4
10°	1449.3	1452.2	1457.9	1472.2	1476.5
12.5°	1432.1	1437.9	1447.9	1465.1	1470.8
15°	1410.7	1417.8	1433.6	1452.2	1459.3
17.5°	1386.4	1396.4	1416.4	1437.9	1445.0
20°	1357.7	1370.6	1393.5	1417.8	1426.4
22.5°	1326.3	1342.0	1367.8	1393.5	1403.5
25°	1291.9	1309.1	1337.7	1364.9	1376.3
27.5°	1256.2	1273.3	1304.8	1332.0	1343.4
30°	1213.2	1233.3	1266.2	1294.8	1304.8
32.5°	1171.8	1191.8	1226.1	1251.9	1261.9
35°	1124.5	1143.1	1180.3	1207.5	1217.5
37.5°	1074.5	1095.9	1131.7	1156.0	1164.6
40°	1025.8	1044.4	1078.8	1103.1	1111.7
42.5°	971.5	991.5	1025.8	1047.3	1054.4
45°	917.1	937.1	967.2	990.1	995.8
47.5°	861.3	879.9	909.9	928.5	934.3
50°	801.2	818.4	847.0	865.6	872.7
52.5°	744.0	759.7	784.0	799.8	804.1
55°	683.9	698.2	718.2	735.4	741.1
57.5°	619.5	635.2	653.8	668.1	672.4
60°	558.0	570.9	586.6	599.5	600.9
62.5°	497.9	503.6	517.9	529.4	530.8
65°	430.6	439.2	453.5	457.8	465.0
67.5°	369.1	374.8	386.3	392.0	397.7
70°	306.2	310.5	321.9	329.1	330.5
72.5°	251.8	253.2	261.8	267.5	269.0
75°	196.0	198.9	206.0	210.3	213.2
77.5°	148.8	151.7	157.4	160.2	160.2
80°	104.4	108.7	114.5	115.9	117.3
82.5°	67.2	73.0	77.3	78.7	75.8
85°	35.8	42.9	42.9	40.1	41.5
87.5°	12.9	15.7	17.2	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)