

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: P297077

Luminaire Tested: **D3X-WG-50L82765-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297077
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-50L82765-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4584.0 lumens
Efficiency: N/A
Efficacy: 130.2 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

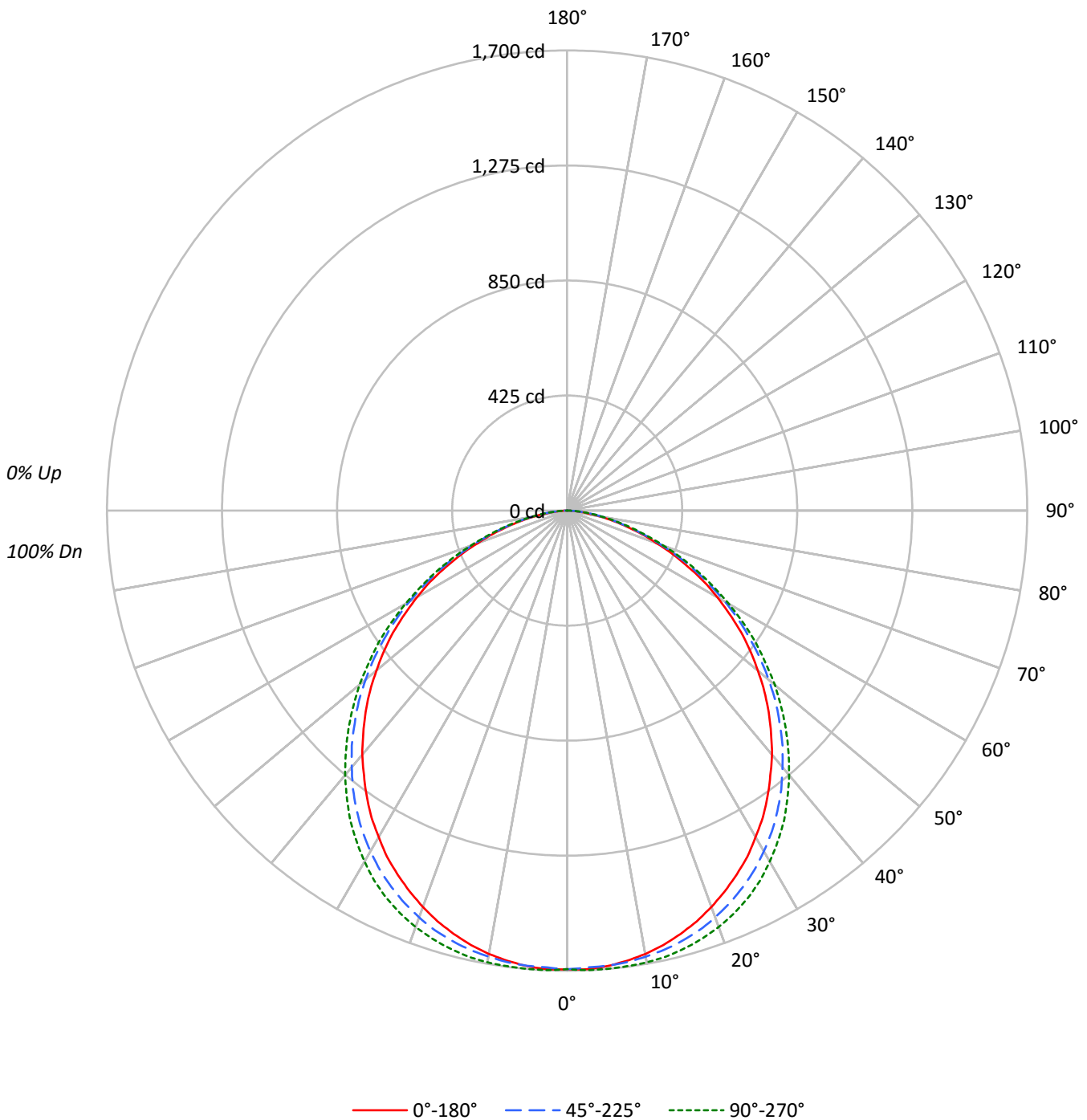
Input Watts (W): 35.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2280	2280	2280
5°	2282	2280	2295
10°	2273	2286	2315
15°	2255	2292	2333
20°	2231	2290	2344
25°	2201	2279	2345
30°	2163	2258	2327
35°	2120	2225	2295
40°	2068	2175	2241
45°	2003	2112	2175
50°	1925	2035	2097
55°	1841	1934	1995
60°	1723	1812	1856
65°	1574	1657	1699
70°	1382	1454	1492
75°	1170	1229	1272
80°	929	1018	1043
85°	634	761	735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	3.5
10°-20°	464.9	10.1
20°-30°	706.5	15.4
30°-40°	843.0	18.4
40°-50°	851.4	18.6
50°-60°	733.5	16.0
60°-70°	511.3	11.2
70°-80°	253.4	5.5
80°-90°	59.1	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°	1332.3	29.1
0°-40°	2175.3	47.5
0°-60°	3760.2	82.0
0°-90°	4584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4584.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1695	1695	1695	1695	1695	
5°	1690	1688	1688	1696	1700	160
15°	1619	1627	1645	1667	1675	457
25°	1483	1502	1535	1566	1580	683
35°	1291	1312	1355	1386	1397	807
45°	1053	1076	1110	1136	1143	811
55°	785	801	824	844	851	700
65°	494	504	520	526	534	491
75°	225	228	236	241	245	243
85°	41	49	49	46	48	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1694.6	1694.6	1694.6	1694.6	1694.6
2.5°	1696.2	1693.0	1689.7	1696.2	1699.5
5°	1689.7	1688.0	1688.0	1696.2	1699.5
7.5°	1678.2	1678.2	1683.1	1694.6	1697.9
10°	1663.4	1666.7	1673.3	1689.7	1694.6
12.5°	1643.7	1650.3	1661.8	1681.5	1688.0
15°	1619.1	1627.3	1645.3	1666.7	1674.9
17.5°	1591.2	1602.7	1625.6	1650.3	1658.5
20°	1558.3	1573.1	1599.4	1627.3	1637.1
22.5°	1522.2	1540.3	1569.8	1599.4	1610.9
25°	1482.8	1502.5	1535.3	1566.5	1579.7
27.5°	1441.7	1461.4	1497.6	1528.8	1541.9
30°	1392.5	1415.5	1453.2	1486.1	1497.6
32.5°	1344.8	1367.8	1407.2	1436.8	1448.3
35°	1290.7	1312.0	1354.7	1385.9	1397.4
37.5°	1233.2	1257.8	1298.9	1326.8	1336.6
40°	1177.4	1198.7	1238.1	1266.0	1275.9
42.5°	1115.0	1137.9	1177.4	1202.0	1210.2
45°	1052.6	1075.6	1110.0	1136.3	1142.9
47.5°	988.5	1009.9	1044.4	1065.7	1072.3
50°	919.6	939.3	972.1	993.4	1001.7
52.5°	853.9	871.9	899.8	917.9	922.8
55°	784.9	801.3	824.3	844.0	850.6
57.5°	711.0	729.1	750.4	766.8	771.8
60°	640.4	655.2	673.2	688.0	689.7
62.5°	571.4	578.0	594.4	607.6	609.2
65°	494.3	504.1	520.5	525.5	533.7
67.5°	423.7	430.2	443.4	449.9	456.5
70°	351.4	356.3	369.5	377.7	379.3
72.5°	289.0	290.6	300.5	307.1	308.7
75°	225.0	228.2	236.5	241.4	244.7
77.5°	170.8	174.1	180.6	183.9	183.9
80°	119.9	124.8	131.4	133.0	134.6
82.5°	77.2	83.7	88.7	90.3	87.0
85°	41.1	49.3	49.3	46.0	47.6
87.5°	14.8	18.1	19.7	21.3	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)