

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: P296797

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296797
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-50L82765-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4576.0 lumens
Efficiency: N/A
Efficacy: 130.0 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

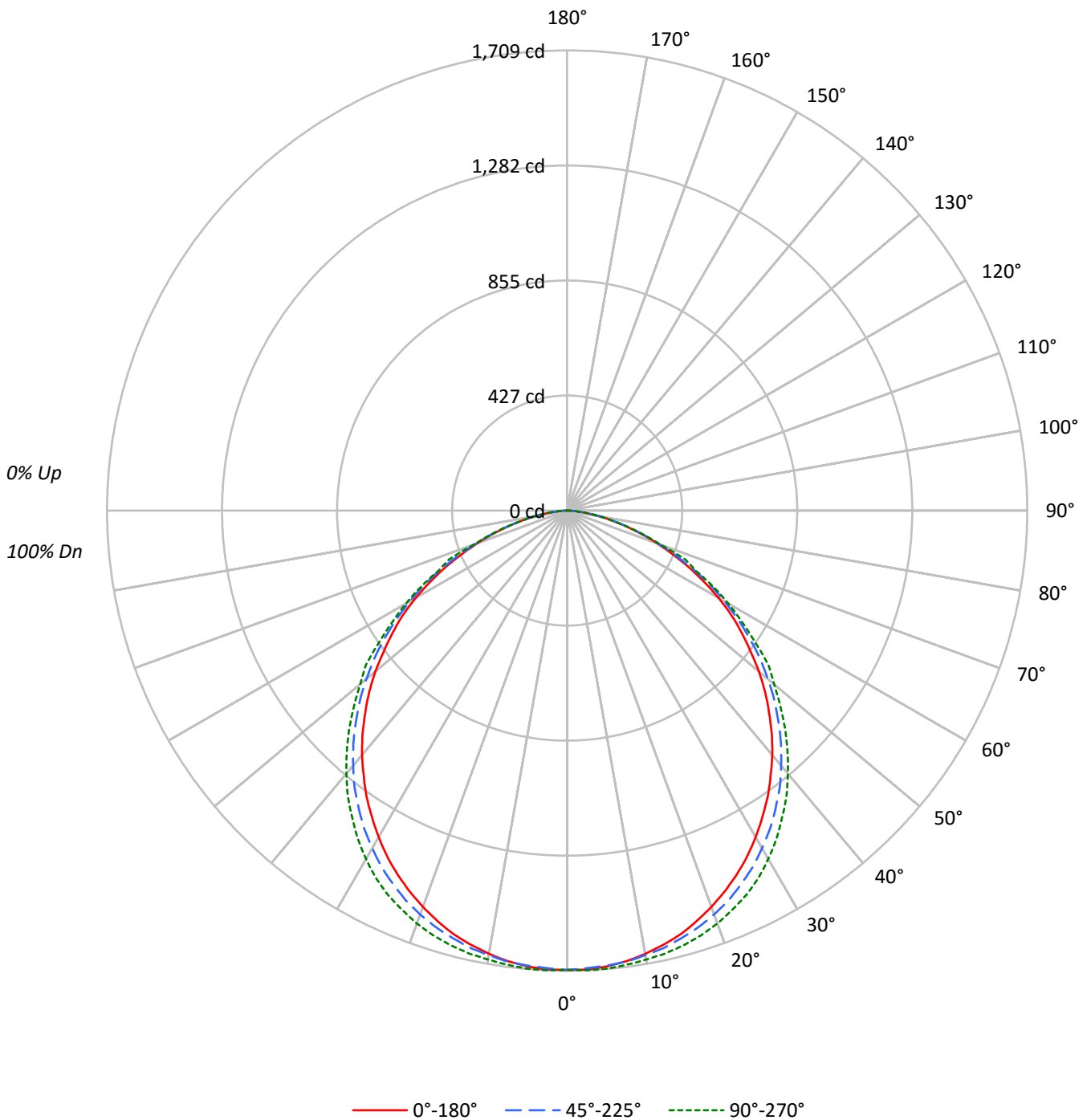
Input Watts (W): 35.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2295	2295	2295
5°	2295	2291	2306
10°	2284	2290	2313
15°	2269	2289	2328
20°	2243	2285	2337
25°	2213	2272	2338
30°	2176	2250	2321
35°	2133	2217	2287
40°	2082	2171	2241
45°	2018	2112	2178
50°	1945	2038	2100
55°	1856	1941	1999
60°	1750	1816	1860
65°	1589	1641	1673
70°	1395	1428	1447
75°	1178	1195	1203
80°	941	954	929
85°	633	659	633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	3.5
10°-20°	464.9	10.2
20°-30°	705.4	15.4
30°-40°	842.2	18.4
40°-50°	852.6	18.6
50°-60°	737.0	16.1
60°-70°	510.8	11.2
70°-80°	247.1	5.4
80°-90°	54.3	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°	1332.0	29.1
0°-40°	2174.2	47.5
0°-60°	3763.7	82.2
0°-90°	4576.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4576.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1706	1706	1706	1706	1706	
5°	1699	1698	1696	1704	1708	161
15°	1629	1632	1644	1663	1671	459
25°	1491	1501	1530	1561	1575	687
35°	1299	1310	1350	1384	1392	811
45°	1061	1075	1110	1138	1144	818
55°	791	800	828	862	852	707
65°	499	504	516	524	525	494
75°	227	228	230	228	232	243
85°	41	44	43	41	41	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1705.9	1705.9	1705.9	1705.9	1705.9
2.5°	1705.9	1704.3	1701.0	1705.9	1709.2
5°	1699.3	1697.7	1696.0	1704.3	1707.5
7.5°	1687.8	1687.8	1689.5	1697.7	1701.0
10°	1671.4	1673.1	1676.3	1689.5	1692.8
12.5°	1651.7	1655.0	1663.2	1678.0	1684.6
15°	1628.7	1632.0	1643.5	1663.2	1671.4
17.5°	1599.2	1605.7	1622.2	1645.2	1653.4
20°	1566.3	1574.6	1595.9	1622.2	1632.0
22.5°	1530.2	1538.4	1566.3	1594.3	1604.1
25°	1490.8	1500.7	1530.2	1561.4	1574.6
27.5°	1448.1	1459.6	1492.5	1525.3	1538.4
30°	1400.5	1413.6	1448.1	1482.6	1494.1
32.5°	1349.6	1362.7	1402.2	1435.0	1446.5
35°	1298.7	1310.2	1349.6	1384.1	1392.3
37.5°	1241.3	1254.4	1297.1	1326.6	1338.1
40°	1185.4	1198.6	1236.3	1265.9	1275.7
42.5°	1124.7	1137.8	1175.6	1203.5	1211.7
45°	1060.6	1075.4	1109.9	1137.8	1144.4
47.5°	996.6	1008.1	1044.2	1068.9	1073.8
50°	929.3	940.8	973.6	998.3	1003.2
52.5°	858.7	876.8	903.0	921.1	942.4
55°	791.4	799.6	827.5	862.0	852.1
57.5°	724.1	729.0	752.0	766.8	770.0
60°	650.2	656.7	674.8	683.0	691.2
62.5°	573.0	577.9	599.3	607.5	610.8
65°	499.1	504.1	515.5	523.8	525.4
67.5°	423.6	428.5	438.4	444.9	474.5
70°	354.6	357.9	362.9	376.0	367.8
72.5°	289.0	290.6	295.5	295.5	297.2
75°	226.6	228.2	229.9	228.2	231.5
77.5°	169.1	172.4	174.0	172.4	170.8
80°	121.5	124.8	123.1	119.9	119.9
82.5°	78.8	80.5	78.8	77.2	77.2
85°	41.0	44.3	42.7	41.0	41.0
87.5°	14.8	16.4	18.1	19.7	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)