

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: P297083

Luminaire Tested: **D3X-WG-50L82765-LD5-UNV-24-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297083
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-6500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4906.0 lumens
Efficiency: N/A
Efficacy: 134.4 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

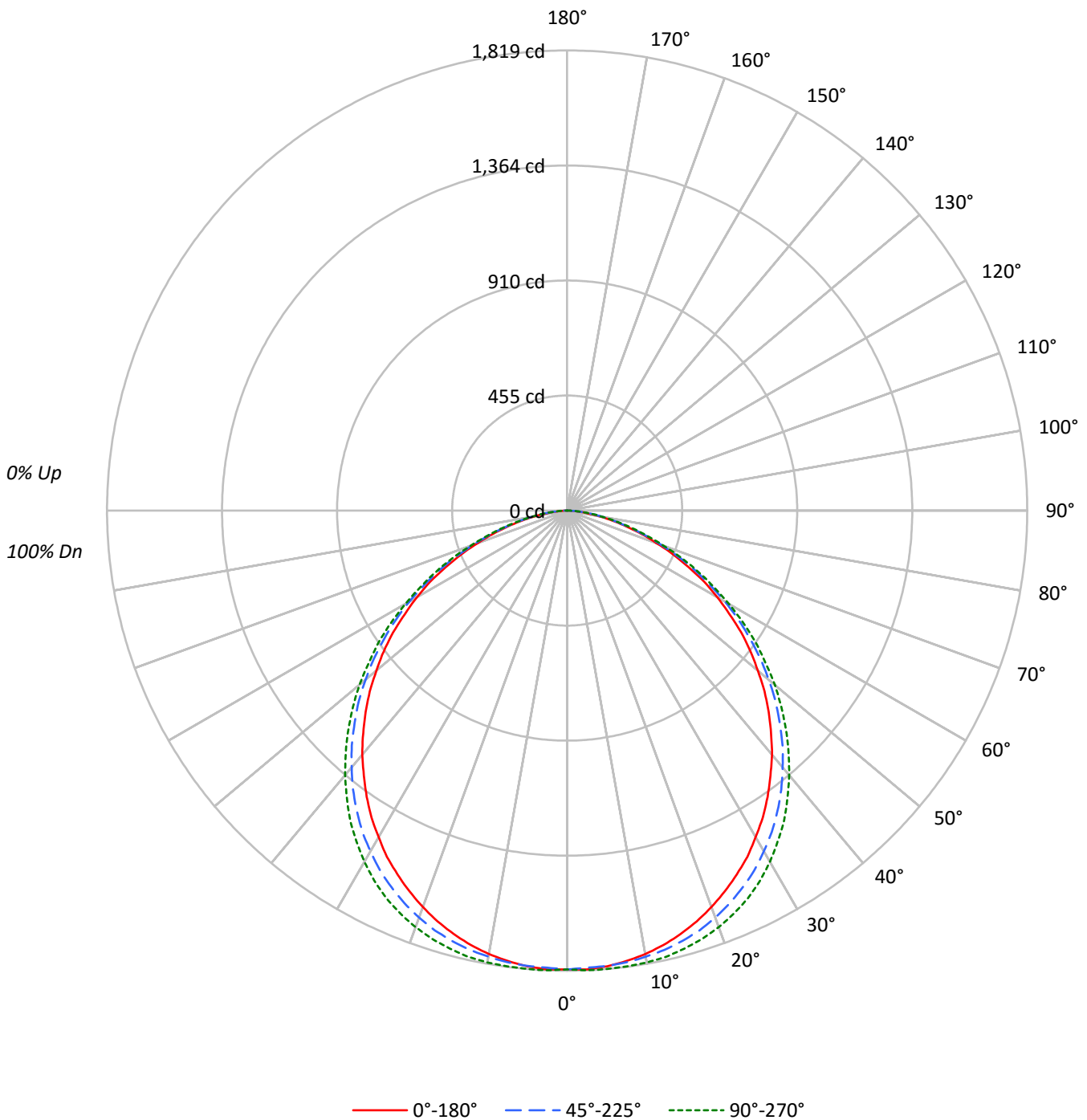
Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2440	2440	2440
5°	2442	2440	2457
10°	2432	2447	2478
15°	2414	2453	2497
20°	2388	2451	2509
25°	2356	2439	2510
30°	2315	2416	2490
35°	2269	2382	2457
40°	2213	2327	2398
45°	2144	2261	2328
50°	2060	2178	2244
55°	1970	2069	2135
60°	1844	1939	1986
65°	1684	1774	1819
70°	1480	1555	1597
75°	1252	1316	1362
80°	994	1089	1117
85°	678	814	787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	3.5
10°-20°	497.5	10.1
20°-30°	756.1	15.4
30°-40°	902.2	18.4
40°-50°	911.2	18.6
50°-60°	785.0	16.0
60°-70°	547.3	11.2
70°-80°	271.2	5.5
80°-90°	63.2	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°	1425.9	29.1
0°-40°	2328.1	47.5
0°-60°	4024.3	82.0
0°-90°	4906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4906.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1814	1814	1814	1814	1814	
5°	1808	1807	1807	1815	1819	172
15°	1733	1742	1761	1784	1793	489
25°	1587	1608	1643	1677	1691	731
35°	1381	1404	1450	1483	1496	863
45°	1126	1151	1188	1216	1223	868
55°	840	858	882	903	910	749
65°	529	540	557	562	571	525
75°	241	244	253	258	262	260
85°	44	53	53	49	51	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1813.6	1813.6	1813.6	1813.6	1813.6
2.5°	1815.4	1811.9	1808.4	1815.4	1818.9
5°	1808.4	1806.6	1806.6	1815.4	1818.9
7.5°	1796.1	1796.1	1801.3	1813.6	1817.2
10°	1780.3	1783.8	1790.8	1808.4	1813.6
12.5°	1759.2	1766.2	1778.5	1799.6	1806.6
15°	1732.8	1741.6	1760.9	1783.8	1792.6
17.5°	1702.9	1715.2	1739.8	1766.2	1775.0
20°	1667.8	1683.6	1711.7	1741.6	1752.1
22.5°	1629.1	1648.4	1680.1	1711.7	1724.0
25°	1586.9	1608.0	1643.2	1676.6	1690.6
27.5°	1543.0	1564.1	1602.8	1636.1	1650.2
30°	1490.3	1514.9	1555.3	1590.5	1602.8
32.5°	1439.3	1463.9	1506.1	1537.7	1550.0
35°	1381.3	1404.2	1449.9	1483.3	1495.6
37.5°	1319.8	1346.2	1390.1	1420.0	1430.5
40°	1260.1	1282.9	1325.1	1355.0	1365.5
42.5°	1193.3	1217.9	1260.1	1286.4	1295.2
45°	1126.5	1151.1	1188.0	1216.1	1223.2
47.5°	1058.0	1080.8	1117.7	1140.6	1147.6
50°	984.1	1005.2	1040.4	1063.2	1072.0
52.5°	913.9	933.2	963.1	982.4	987.7
55°	840.0	857.6	882.2	903.3	910.3
57.5°	761.0	780.3	803.1	820.7	826.0
60°	685.4	701.2	720.5	736.4	738.1
62.5°	611.6	618.6	636.2	650.2	652.0
65°	529.0	539.5	557.1	562.4	571.2
67.5°	453.4	460.4	474.5	481.5	488.6
70°	376.1	381.4	395.4	404.2	406.0
72.5°	309.3	311.1	321.6	328.6	330.4
75°	240.8	244.3	253.1	258.3	261.9
77.5°	182.8	186.3	193.3	196.8	196.8
80°	128.3	133.6	140.6	142.3	144.1
82.5°	82.6	89.6	94.9	96.7	93.1
85°	43.9	52.7	52.7	49.2	51.0
87.5°	15.8	19.3	21.1	22.8	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)