

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: P297357

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-50L82765-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4875.0 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

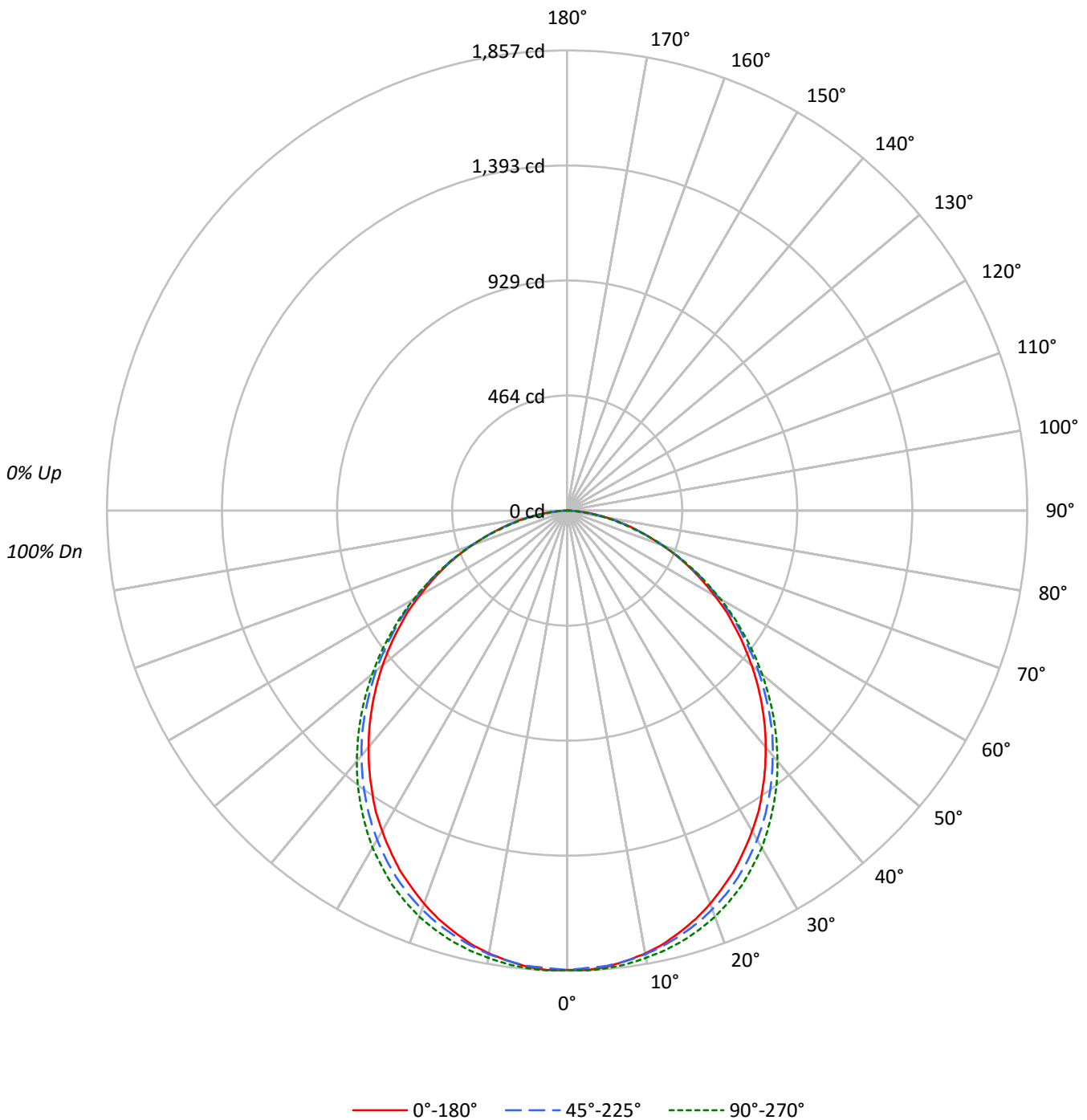
Input Watts (W): 35.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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°	2495	2495	2495
5°	2495	2491	2504
10°	2479	2484	2504
15°	2452	2471	2505
20°	2417	2452	2497
25°	2375	2423	2477
30°	2319	2383	2442
35°	2258	2331	2384
40°	2189	2267	2319
45°	2116	2194	2241
50°	2035	2111	2148
55°	1949	2011	2042
60°	1852	1900	1922
65°	1746	1772	1783
70°	1602	1622	1602
75°	1443	1434	1392
80°	1222	1209	1171
85°	912	888	786



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.5	3.6
10°-20°	501.5	10.3
20°-30°	751.9	15.4
30°-40°	885.4	18.2
40°-50°	885.6	18.2
50°-60°	764.1	15.7
60°-70°	549.8	11.3
70°-80°	291.6	6.0
80°-90°	69.6	1.4
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°	1428.9	29.3
0°-40°	2314.3	47.5
0°-60°	3964.0	81.3
0°-90°	4875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1854	1854	1854	1854	1854	
5°	1848	1846	1844	1851	1854	175
15°	1760	1765	1774	1792	1798	496
25°	1600	1609	1632	1660	1668	736
35°	1374	1391	1419	1444	1452	860
45°	1112	1127	1153	1172	1178	858
55°	831	839	857	872	870	744
65°	548	550	557	560	560	542
75°	278	274	276	269	268	295
85°	59	59	58	53	51	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1855.7	1852.4	1847.5	1854.1	1857.3
5°	1847.5	1845.8	1844.2	1850.8	1854.1
7.5°	1832.7	1834.3	1832.7	1842.6	1845.8
10°	1814.6	1816.3	1817.9	1829.4	1832.7
12.5°	1791.6	1793.3	1798.2	1813.0	1817.9
15°	1760.4	1765.4	1773.6	1791.6	1798.2
17.5°	1727.6	1734.2	1745.7	1767.0	1773.6
20°	1688.2	1696.4	1712.8	1735.8	1744.0
22.5°	1643.8	1652.1	1675.1	1699.7	1707.9
25°	1599.5	1609.4	1632.4	1660.3	1668.5
27.5°	1547.0	1560.1	1584.7	1612.6	1619.2
30°	1492.8	1504.3	1533.8	1560.1	1571.6
32.5°	1438.6	1450.1	1478.0	1504.3	1512.5
35°	1374.5	1390.9	1418.9	1443.5	1451.7
37.5°	1312.1	1326.9	1356.5	1381.1	1389.3
40°	1246.4	1259.6	1290.8	1313.8	1320.3
42.5°	1180.7	1193.9	1225.1	1243.2	1249.7
45°	1111.8	1126.6	1152.8	1172.5	1177.5
47.5°	1042.8	1054.3	1078.9	1097.0	1103.6
50°	972.2	983.7	1008.3	1023.1	1026.4
52.5°	901.6	909.8	932.8	945.9	950.8
55°	831.0	839.2	857.2	872.0	870.4
57.5°	763.6	766.9	785.0	794.8	794.8
60°	688.1	691.4	706.1	712.7	714.4
62.5°	617.5	622.4	633.9	635.5	635.5
65°	548.5	550.1	556.7	560.0	560.0
67.5°	479.5	477.9	484.5	484.5	482.8
70°	407.3	410.6	412.2	408.9	407.3
72.5°	341.6	339.9	339.9	338.3	338.3
75°	277.5	274.2	275.9	269.3	267.7
77.5°	218.4	213.5	211.8	208.6	205.3
80°	157.7	157.7	156.0	152.7	151.1
82.5°	105.1	105.1	103.5	100.2	96.9
85°	59.1	59.1	57.5	52.6	50.9
87.5°	19.7	19.7	19.7	19.7	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)