

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: P297078

Luminaire Tested: **D3X-WG-50L82765-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297078
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-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4685.0 lumens
Efficiency: N/A
Efficacy: 132.7 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

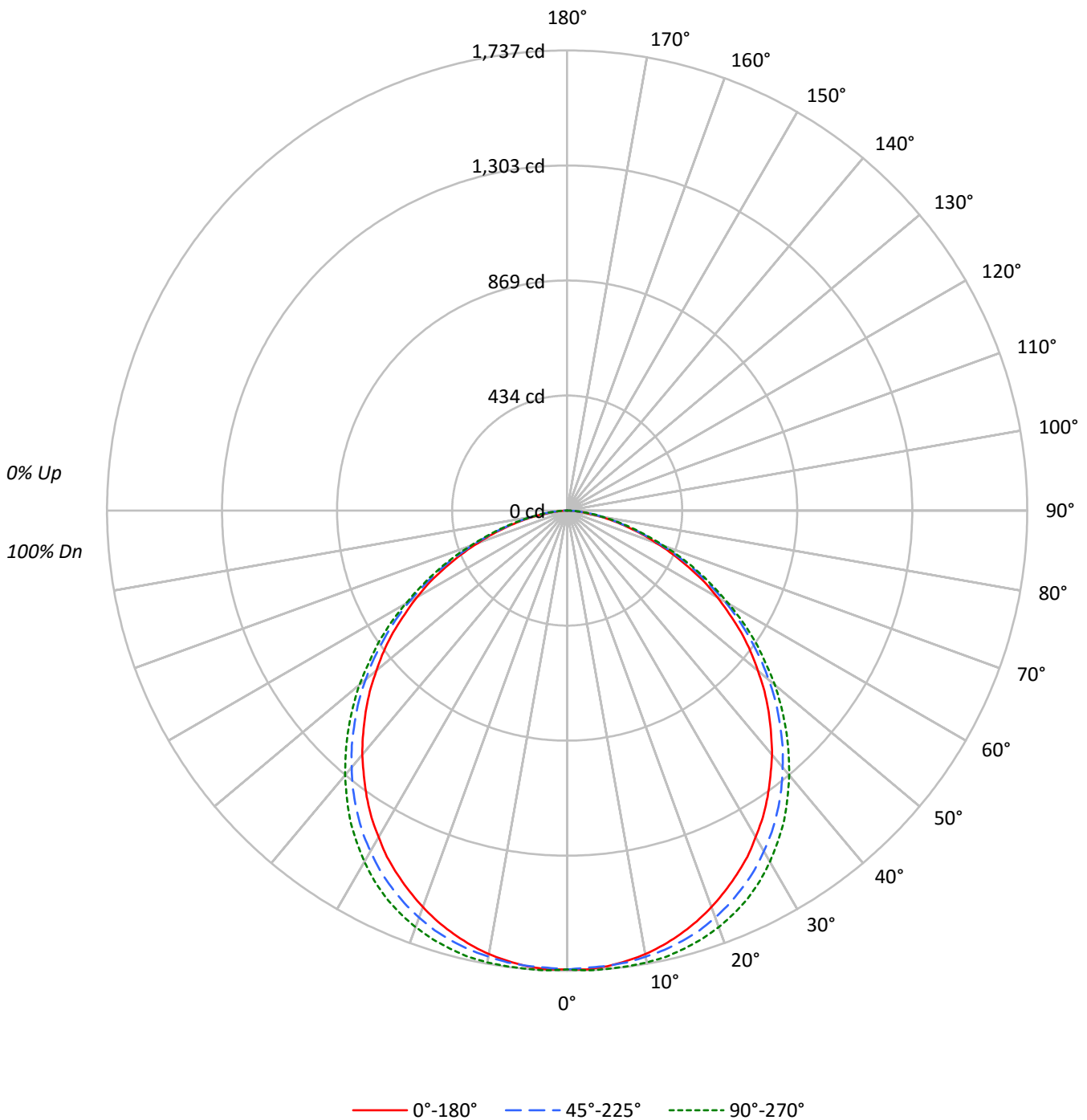
Input Watts (W): 35.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2330	2330	2330
5°	2332	2330	2346
10°	2323	2336	2366
15°	2305	2342	2384
20°	2280	2340	2396
25°	2250	2330	2397
30°	2211	2307	2378
35°	2167	2274	2346
40°	2113	2223	2290
45°	2047	2159	2223
50°	1967	2080	2143
55°	1882	1976	2039
60°	1761	1852	1897
65°	1608	1694	1736
70°	1413	1485	1525
75°	1195	1256	1300
80°	949	1041	1066
85°	648	777	752



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	3.5
10°-20°	475.1	10.1
20°-30°	722.0	15.4
30°-40°	861.5	18.4
40°-50°	870.1	18.6
50°-60°	749.7	16.0
60°-70°	522.6	11.2
70°-80°	259.0	5.5
80°-90°	60.4	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°	1361.7	29.1
0°-40°	2223.2	47.5
0°-60°	3843.0	82.0
0°-90°	4685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4685.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1732	1732	1732	1732	1732	
5°	1727	1725	1725	1734	1737	164
15°	1655	1663	1682	1703	1712	467
25°	1516	1536	1569	1601	1614	698
35°	1319	1341	1384	1416	1428	824
45°	1076	1099	1134	1161	1168	829
55°	802	819	842	863	869	715
65°	505	515	532	537	545	502
75°	230	233	242	247	250	248
85°	42	50	50	47	49	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1731.9	1731.9	1731.9	1731.9	1731.9
2.5°	1733.6	1730.3	1726.9	1733.6	1737.0
5°	1726.9	1725.2	1725.2	1733.6	1737.0
7.5°	1715.2	1715.2	1720.2	1731.9	1735.3
10°	1700.1	1703.4	1710.1	1726.9	1731.9
12.5°	1679.9	1686.6	1698.4	1718.5	1725.2
15°	1654.7	1663.1	1681.6	1703.4	1711.8
17.5°	1626.2	1638.0	1661.5	1686.6	1695.0
20°	1592.7	1607.8	1634.6	1663.1	1673.2
22.5°	1555.7	1574.2	1604.4	1634.6	1646.4
25°	1515.5	1535.6	1569.2	1601.0	1614.5
27.5°	1473.5	1493.6	1530.6	1562.4	1575.9
30°	1423.1	1446.6	1485.2	1518.8	1530.6
32.5°	1374.5	1398.0	1438.3	1468.5	1480.2
35°	1319.1	1340.9	1384.5	1416.4	1428.2
37.5°	1260.4	1285.5	1327.5	1356.0	1366.1
40°	1203.3	1225.1	1265.4	1293.9	1304.0
42.5°	1139.5	1163.0	1203.3	1228.5	1236.9
45°	1075.8	1099.2	1134.5	1161.3	1168.1
47.5°	1010.3	1032.1	1067.4	1089.2	1095.9
50°	939.8	960.0	993.5	1015.3	1023.7
52.5°	872.7	891.1	919.7	938.1	943.2
55°	802.2	819.0	842.5	862.6	869.3
57.5°	726.7	745.1	767.0	783.7	788.8
60°	654.5	669.6	688.1	703.2	704.9
62.5°	584.0	590.7	607.5	620.9	622.6
65°	505.2	515.2	532.0	537.0	545.4
67.5°	433.0	439.7	453.1	459.8	466.6
70°	359.1	364.2	377.6	386.0	387.7
72.5°	295.4	297.0	307.1	313.8	315.5
75°	229.9	233.3	241.7	246.7	250.1
77.5°	174.5	177.9	184.6	188.0	188.0
80°	122.5	127.5	134.3	135.9	137.6
82.5°	78.9	85.6	90.6	92.3	88.9
85°	42.0	50.3	50.3	47.0	48.7
87.5°	15.1	18.5	20.1	21.8	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)