

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: P297052

Luminaire Tested: **D3X-WG-36L82765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297052
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-36L82765-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3509.0 lumens
Efficiency: N/A
Efficacy: 136.5 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

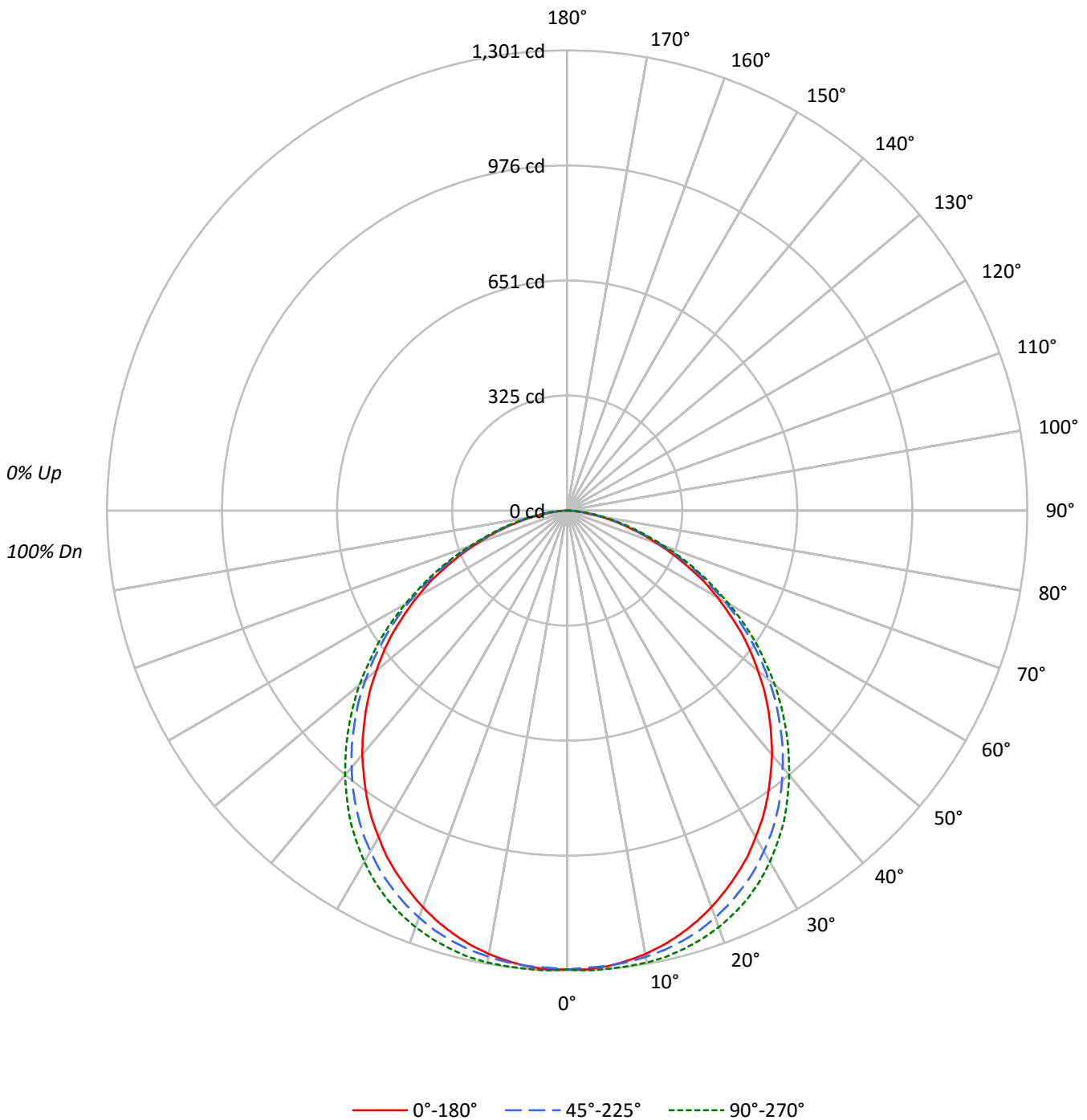
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1745	1745	1745
5°	1747	1745	1757
10°	1740	1750	1772
15°	1726	1754	1786
20°	1708	1753	1794
25°	1685	1745	1795
30°	1656	1728	1781
35°	1623	1703	1757
40°	1583	1665	1715
45°	1533	1617	1665
50°	1473	1558	1605
55°	1409	1480	1527
60°	1319	1387	1421
65°	1205	1269	1301
70°	1058	1113	1142
75°	895	941	974
80°	711	779	799
85°	485	582	563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	3.5
10°-20°	355.8	10.1
20°-30°	540.8	15.4
30°-40°	645.3	18.4
40°-50°	651.7	18.6
50°-60°	561.5	16.0
60°-70°	391.4	11.2
70°-80°	194.0	5.5
80°-90°	45.2	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°	1019.9	29.1
0°-40°	1665.2	47.5
0°-60°	2878.4	82.0
0°-90°	3509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1297	1297	1297	1297	1297	
5°	1293	1292	1292	1298	1301	123
15°	1239	1246	1260	1276	1282	350
25°	1135	1150	1175	1199	1209	523
35°	988	1004	1037	1061	1070	618
45°	806	823	850	870	875	621
55°	601	613	631	646	651	535
65°	378	386	398	402	408	376
75°	172	175	181	185	187	186
85°	31	38	38	35	36	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1297.2	1297.2	1297.2	1297.2	1297.2
2.5°	1298.5	1295.9	1293.4	1298.5	1301.0
5°	1293.4	1292.2	1292.2	1298.5	1301.0
7.5°	1284.6	1284.6	1288.4	1297.2	1299.7
10°	1273.3	1275.8	1280.9	1293.4	1297.2
12.5°	1258.2	1263.3	1272.1	1287.1	1292.2
15°	1239.4	1245.7	1259.5	1275.8	1282.1
17.5°	1218.0	1226.8	1244.4	1263.3	1269.5
20°	1192.9	1204.2	1224.3	1245.7	1253.2
22.5°	1165.2	1179.0	1201.7	1224.3	1233.1
25°	1135.1	1150.1	1175.3	1199.2	1209.2
27.5°	1103.6	1118.7	1146.4	1170.2	1180.3
30°	1065.9	1083.5	1112.4	1137.6	1146.4
32.5°	1029.5	1047.1	1077.2	1099.9	1108.7
35°	988.0	1004.3	1037.0	1060.9	1069.7
37.5°	944.0	962.8	994.3	1015.6	1023.2
40°	901.3	917.6	947.8	969.1	976.7
42.5°	853.5	871.1	901.3	920.1	926.4
45°	805.7	823.3	849.7	869.8	874.9
47.5°	756.7	773.0	799.4	815.8	820.8
50°	703.9	719.0	744.1	760.5	766.8
52.5°	653.6	667.5	688.8	702.7	706.4
55°	600.8	613.4	631.0	646.1	651.1
57.5°	544.3	558.1	574.4	587.0	590.8
60°	490.2	501.5	515.4	526.7	527.9
62.5°	437.4	442.5	455.0	465.1	466.3
65°	378.4	385.9	398.5	402.2	408.5
67.5°	324.3	329.3	339.4	344.4	349.4
70°	269.0	272.8	282.8	289.1	290.4
72.5°	221.2	222.5	230.0	235.1	236.3
75°	172.2	174.7	181.0	184.8	187.3
77.5°	130.7	133.2	138.3	140.8	140.8
80°	91.8	95.5	100.6	101.8	103.1
82.5°	59.1	64.1	67.9	69.1	66.6
85°	31.4	37.7	37.7	35.2	36.5
87.5°	11.3	13.8	15.1	16.3	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)