

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: P297051

Luminaire Tested: **D3X-WG-36L82765-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297051
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-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: 3448.0 lumens
Efficiency: N/A
Efficacy: 135.2 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

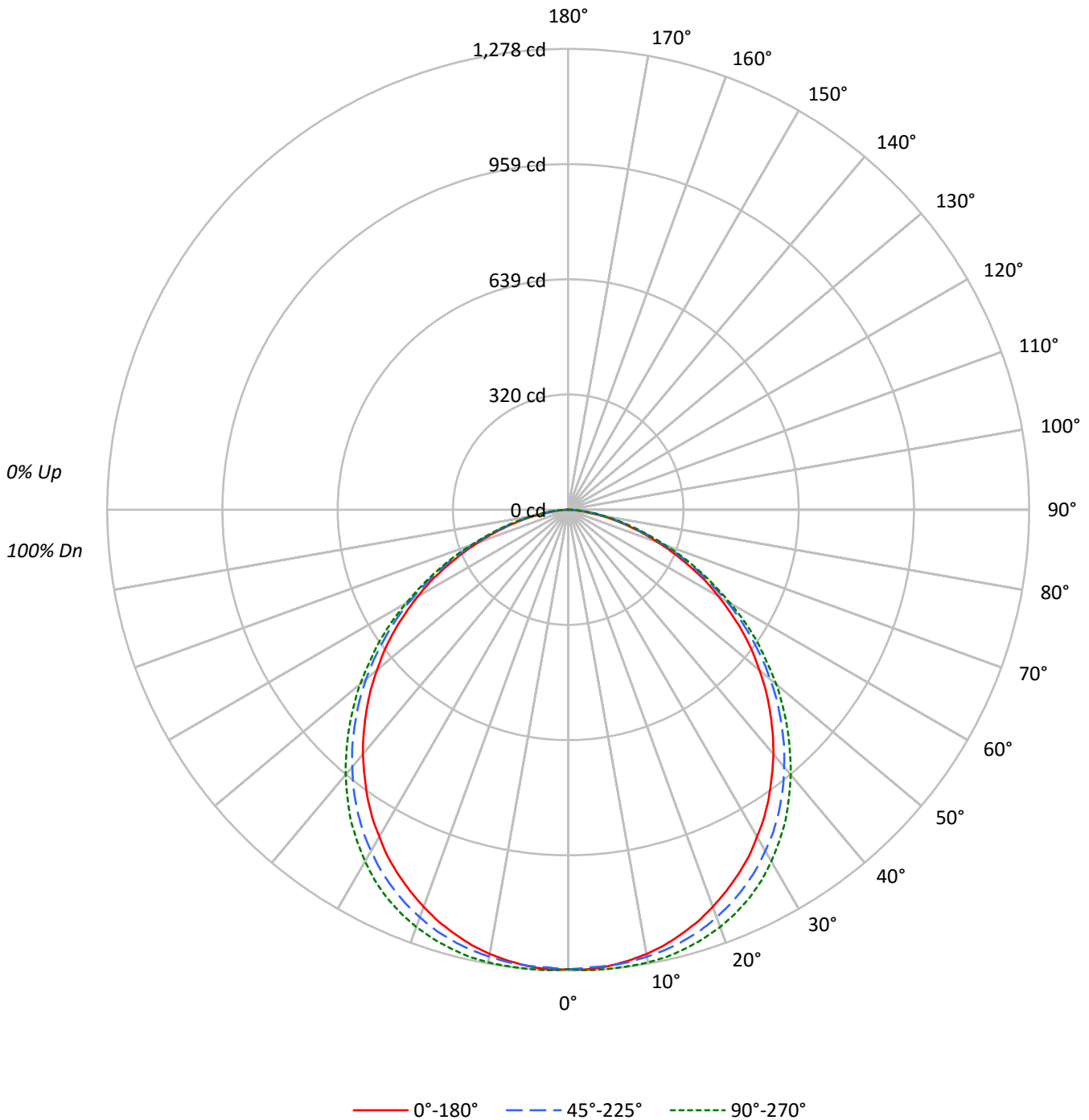
Input Watts (W): 25.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1715	1715	1715
5°	1717	1715	1727
10°	1709	1720	1742
15°	1696	1724	1755
20°	1678	1723	1763
25°	1656	1714	1764
30°	1627	1698	1750
35°	1595	1674	1726
40°	1555	1636	1686
45°	1506	1589	1636
50°	1448	1531	1577
55°	1385	1454	1501
60°	1296	1363	1396
65°	1184	1246	1278
70°	1040	1093	1122
75°	880	925	957
80°	699	766	785
85°	477	573	553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.1	3.5
10°-20°	349.7	10.1
20°-30°	531.4	15.4
30°-40°	634.1	18.4
40°-50°	640.4	18.6
50°-60°	551.7	16.0
60°-70°	384.6	11.2
70°-80°	190.6	5.5
80°-90°	44.5	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°	1002.2	29.1
0°-40°	1636.2	47.5
0°-60°	2828.3	82.0
0°-90°	3448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3448.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1275	1275	1275	1275	1275	
5°	1271	1270	1270	1276	1278	121
15°	1218	1224	1238	1254	1260	343
25°	1115	1130	1155	1178	1188	514
35°	971	987	1019	1042	1051	607
45°	792	809	835	855	860	610
55°	590	603	620	635	640	526
65°	372	379	392	395	401	369
75°	169	172	178	182	184	182
85°	31	37	37	35	36	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1274.7	1274.7	1274.7	1274.7	1274.7
2.5°	1275.9	1273.4	1270.9	1275.9	1278.4
5°	1270.9	1269.7	1269.7	1275.9	1278.4
7.5°	1262.3	1262.3	1266.0	1274.7	1277.1
10°	1251.2	1253.7	1258.6	1270.9	1274.7
12.5°	1236.4	1241.3	1250.0	1264.8	1269.7
15°	1217.8	1224.0	1237.6	1253.7	1259.8
17.5°	1196.8	1205.5	1222.8	1241.3	1247.5
20°	1172.1	1183.3	1203.0	1224.0	1231.4
22.5°	1145.0	1158.6	1180.8	1203.0	1211.7
25°	1115.3	1130.1	1154.8	1178.3	1188.2
27.5°	1084.4	1099.3	1126.4	1149.9	1159.8
30°	1047.4	1064.7	1093.1	1117.8	1126.4
32.5°	1011.6	1028.9	1058.5	1080.7	1089.4
35°	970.8	986.9	1019.0	1042.4	1051.1
37.5°	927.6	946.1	977.0	998.0	1005.4
40°	885.6	901.6	931.3	952.3	959.7
42.5°	838.7	855.9	885.6	904.1	910.3
45°	791.7	809.0	834.9	854.7	859.6
47.5°	743.5	759.6	785.5	801.6	806.5
50°	691.7	706.5	731.2	747.3	753.4
52.5°	642.3	655.9	676.9	690.4	694.1
55°	590.4	602.7	620.0	634.9	639.8
57.5°	534.8	548.4	564.5	576.8	580.5
60°	481.7	492.8	506.4	517.5	518.8
62.5°	429.8	434.8	447.1	457.0	458.2
65°	371.8	379.2	391.5	395.2	401.4
67.5°	318.7	323.6	333.5	338.4	343.4
70°	264.3	268.0	277.9	284.1	285.3
72.5°	217.4	218.6	226.0	231.0	232.2
75°	169.2	171.7	177.9	181.6	184.0
77.5°	128.5	130.9	135.9	138.3	138.3
80°	90.2	93.9	98.8	100.0	101.3
82.5°	58.1	63.0	66.7	67.9	65.5
85°	30.9	37.1	37.1	34.6	35.8
87.5°	11.1	13.6	14.8	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)