

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: P297758

Luminaire Tested: **D3X-WG-40L82765-LD5-UNV-14-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-40L82765-LD5-UNV-14-T1-W2A-6500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4020.0 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

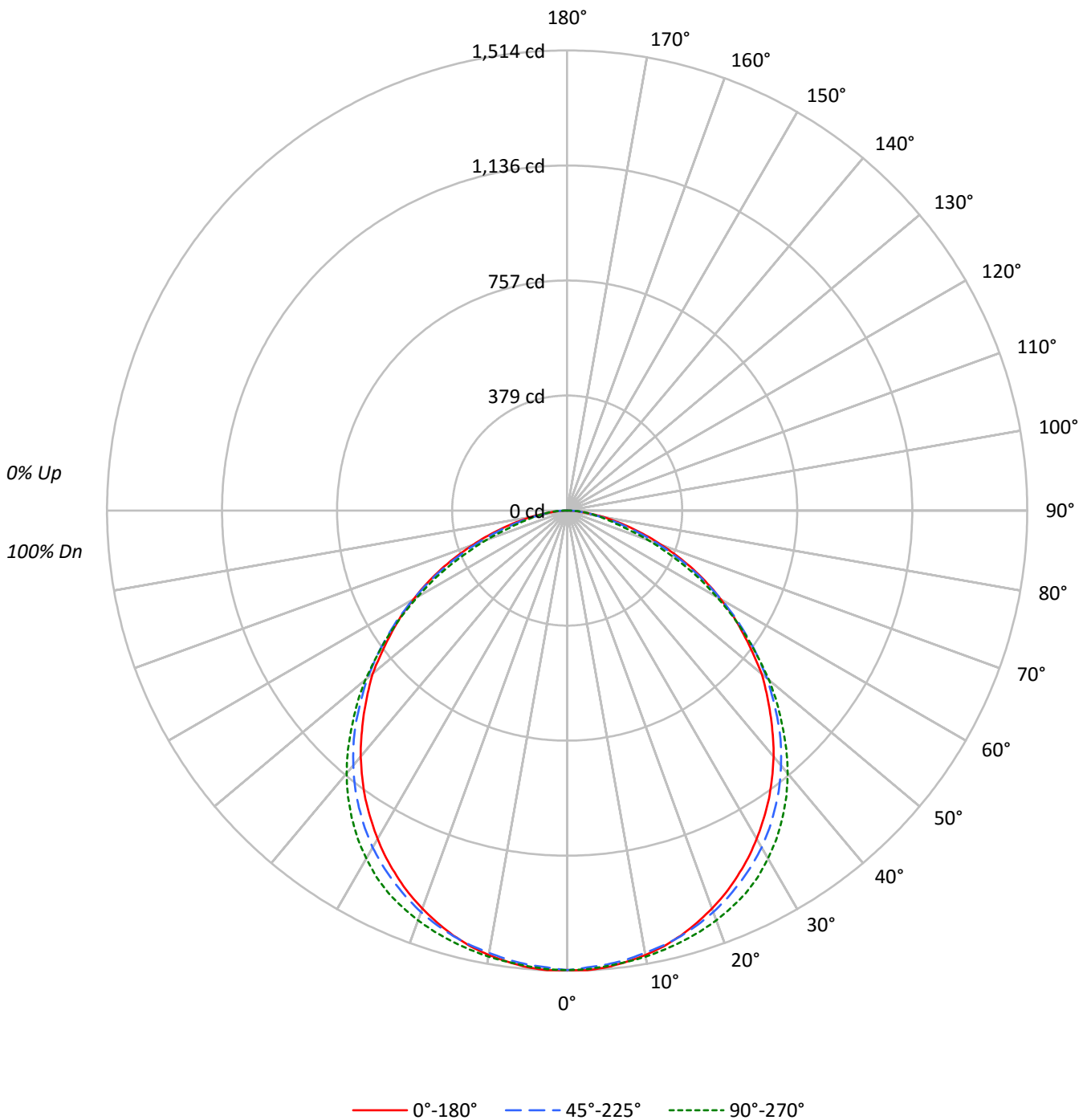
Input Watts (W): 41.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4068	4068	4068
5°	4074	4050	4065
10°	4057	4038	4072
15°	4031	4036	4087
20°	3990	4026	4108
25°	3939	4003	4126
30°	3877	3977	4106
35°	3803	3921	4057
40°	3713	3846	3966
45°	3599	3735	3811
50°	3499	3590	3628
55°	3323	3391	3374
60°	3144	3144	3057
65°	2919	2850	2690
70°	2589	2475	2234
75°	2243	2037	1720
80°	1838	1588	1561
85°	1220	1442	1553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.9	3.6
10°-20°	410.3	10.2
20°-30°	623.6	15.5
30°-40°	746.6	18.6
40°-50°	753.1	18.7
50°-60°	641.5	16.0
60°-70°	438.6	10.9
70°-80°	210.0	5.2
80°-90°	53.2	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°	1176.9	29.3
0°-40°	1923.5	47.8
0°-60°	3318.1	82.5
0°-90°	4020.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4020.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1512	1512	1512	1512	1512	
5°	1508	1506	1499	1506	1505	143
15°	1447	1444	1449	1465	1467	408
25°	1327	1328	1348	1379	1390	611
35°	1158	1161	1194	1228	1235	723
45°	946	953	982	1001	1001	730
55°	708	712	723	724	719	634
65°	458	449	448	431	422	452
75°	216	212	196	171	165	230
85°	40	43	47	48	50	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1511.8	1511.8	1511.8	1511.8	1511.8
2.5°	1513.6	1511.8	1504.7	1511.8	1510.0
5°	1508.3	1506.5	1499.3	1506.5	1504.7
7.5°	1497.5	1495.7	1490.3	1497.5	1497.5
10°	1484.9	1481.3	1477.7	1488.5	1490.3
12.5°	1468.7	1465.1	1465.1	1477.7	1479.5
15°	1447.1	1443.5	1448.9	1465.1	1466.9
17.5°	1422.0	1420.2	1429.2	1448.9	1452.5
20°	1393.2	1391.4	1405.8	1429.2	1434.5
22.5°	1362.6	1362.6	1378.8	1405.8	1413.0
25°	1326.7	1328.5	1348.3	1378.8	1389.6
27.5°	1288.9	1292.5	1315.9	1350.1	1359.0
30°	1247.6	1253.0	1279.9	1312.3	1321.3
32.5°	1202.6	1208.0	1238.6	1272.8	1281.7
35°	1157.7	1161.3	1193.7	1227.8	1235.0
37.5°	1107.4	1112.8	1146.9	1177.5	1184.7
40°	1057.0	1062.4	1094.8	1123.5	1128.9
42.5°	1001.3	1008.5	1040.9	1064.2	1067.8
45°	945.6	952.8	981.5	1001.3	1001.3
47.5°	889.9	893.4	918.6	938.4	936.6
50°	835.9	834.1	857.5	866.5	866.5
52.5°	769.4	774.8	791.0	796.4	791.0
55°	708.3	711.9	722.7	724.5	719.1
57.5°	649.0	647.2	656.2	650.8	643.6
60°	584.2	584.2	584.2	578.9	568.1
62.5°	521.3	517.7	515.9	503.3	498.0
65°	458.4	449.4	447.6	431.4	422.5
67.5°	391.9	388.3	379.3	363.1	347.0
70°	329.0	325.4	314.6	294.8	284.0
72.5°	271.4	267.9	253.5	230.1	215.7
75°	215.7	212.1	195.9	170.8	165.4
77.5°	163.6	161.8	145.6	133.0	131.2
80°	118.6	116.8	102.5	102.5	100.7
82.5°	75.5	75.5	71.9	73.7	75.5
85°	39.5	43.1	46.7	48.5	50.3
87.5°	12.6	19.8	23.4	25.2	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)