

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: P297611

Luminaire Tested: **D3X-WD-40L82765-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-40L82765-LD5-UNV-14-T1-W2A-3000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3637.0 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

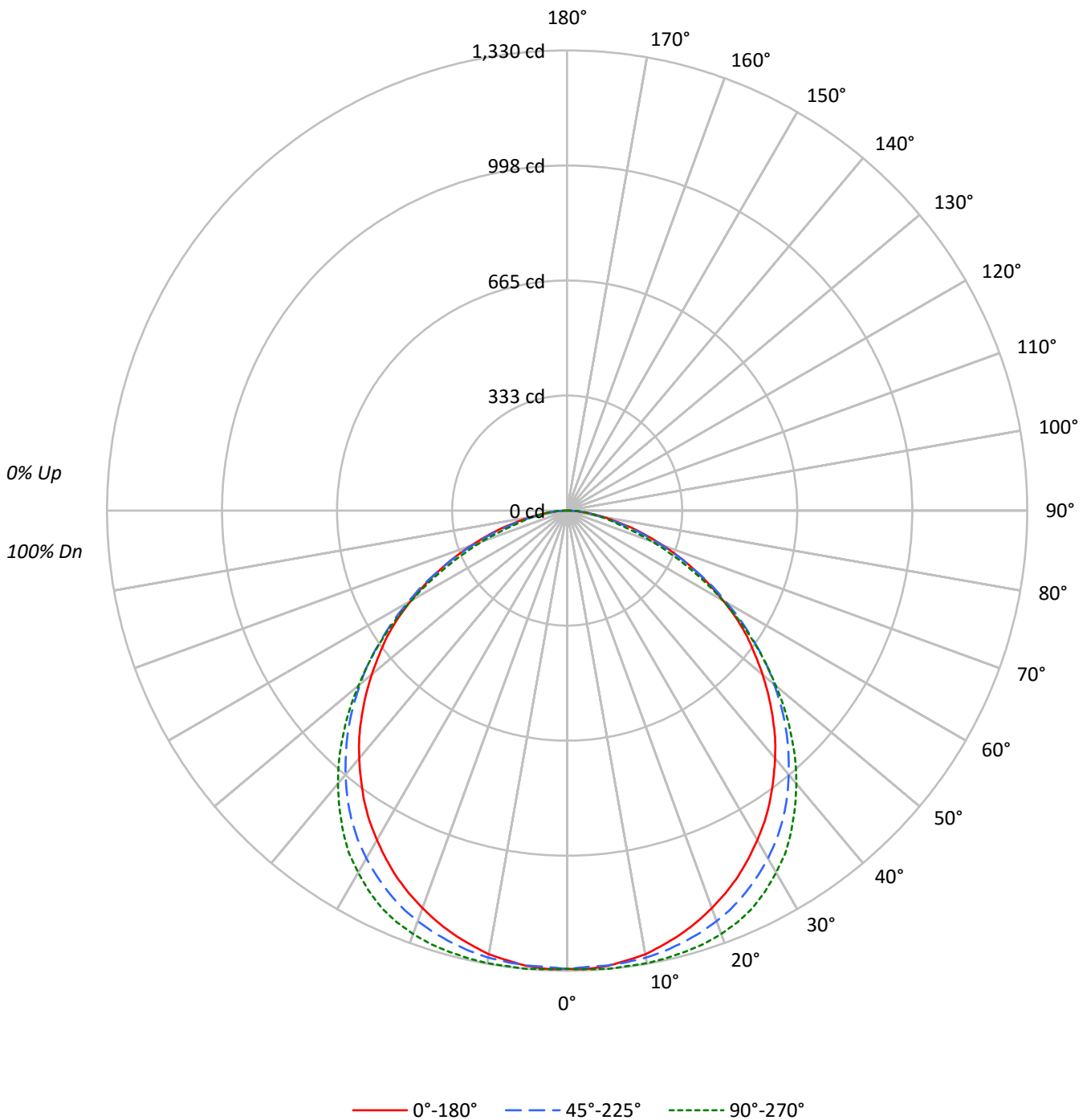
Input Watts (W): 39.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	48	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	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3565	3565	3565
5°	3570	3565	3592
10°	3558	3584	3629
15°	3532	3600	3677
20°	3501	3617	3729
25°	3466	3620	3765
30°	3415	3607	3753
35°	3360	3573	3712
40°	3285	3502	3621
45°	3194	3404	3484
50°	3086	3269	3296
55°	2978	3092	3077
60°	2805	2866	2796
65°	2585	2595	2450
70°	2312	2261	2057
75°	2009	1874	1587
80°	1610	1460	1460
85°	1152	1352	1405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	3.5
10°-20°	365.7	10.1
20°-30°	561.5	15.4
30°-40°	676.3	18.6
40°-50°	683.4	18.8
50°-60°	582.9	16.0
60°-70°	399.0	11.0
70°-80°	192.6	5.3
80°-90°	49.6	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°	1053.2	29.0
0°-40°	1729.5	47.6
0°-60°	2995.8	82.4
0°-90°	3637.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3637.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1325	1325	1325	1325	1325	
5°	1322	1322	1320	1328	1330	125
15°	1268	1278	1292	1315	1320	358
25°	1167	1185	1219	1255	1268	537
35°	1023	1046	1088	1122	1130	639
45°	839	862	894	916	916	647
55°	635	646	659	662	656	565
65°	406	411	408	393	385	403
75°	193	193	180	159	153	205
85°	37	41	44	46	46	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1324.8	1324.8	1324.8	1324.8	1324.8
2.5°	1326.4	1324.8	1319.9	1326.4	1326.4
5°	1321.5	1321.5	1319.9	1328.0	1329.6
7.5°	1311.8	1315.0	1316.6	1326.4	1328.0
10°	1302.0	1305.3	1311.8	1324.8	1328.0
12.5°	1285.8	1292.3	1303.7	1321.5	1324.8
15°	1267.9	1277.7	1292.3	1315.0	1319.9
17.5°	1246.8	1259.8	1279.3	1305.3	1313.4
20°	1222.5	1237.1	1263.1	1292.3	1302.0
22.5°	1196.5	1212.7	1243.6	1277.7	1287.4
25°	1167.3	1185.1	1219.2	1255.0	1267.9
27.5°	1134.8	1154.3	1191.6	1229.0	1240.3
30°	1099.1	1120.2	1160.8	1198.1	1207.9
32.5°	1063.4	1084.5	1126.7	1162.4	1173.8
35°	1022.8	1045.5	1087.7	1121.8	1129.9
37.5°	979.0	1001.7	1043.9	1078.0	1081.2
40°	935.1	957.9	996.8	1027.7	1030.9
42.5°	889.7	910.8	946.5	972.5	975.7
45°	839.3	862.1	894.5	915.6	915.6
47.5°	789.0	811.7	839.3	854.0	854.0
50°	737.1	758.2	780.9	789.0	787.4
52.5°	685.1	704.6	724.1	725.7	722.5
55°	634.8	646.1	659.1	662.4	655.9
57.5°	579.6	589.3	597.4	592.6	587.7
60°	521.1	530.9	532.5	524.4	519.5
62.5°	464.3	472.4	472.4	459.4	451.3
65°	405.9	410.7	407.5	392.9	384.8
67.5°	350.7	353.9	347.4	332.8	319.8
70°	293.9	295.5	287.4	269.5	261.4
72.5°	241.9	243.5	233.8	212.7	202.9
75°	193.2	193.2	180.2	159.1	152.6
77.5°	144.5	149.4	134.7	123.4	123.4
80°	103.9	108.8	94.2	95.8	94.2
82.5°	68.2	73.1	68.2	68.2	68.2
85°	37.3	40.6	43.8	45.5	45.5
87.5°	11.4	19.5	21.1	22.7	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)