

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: P297746

Luminaire Tested: **D3X-WG-35L82765-LD5-UNV-14-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297746
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-35L82765-LD5-UNV-14-T1-W2A-5000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3479.0 lumens
Efficiency: N/A
Efficacy: 101.4 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

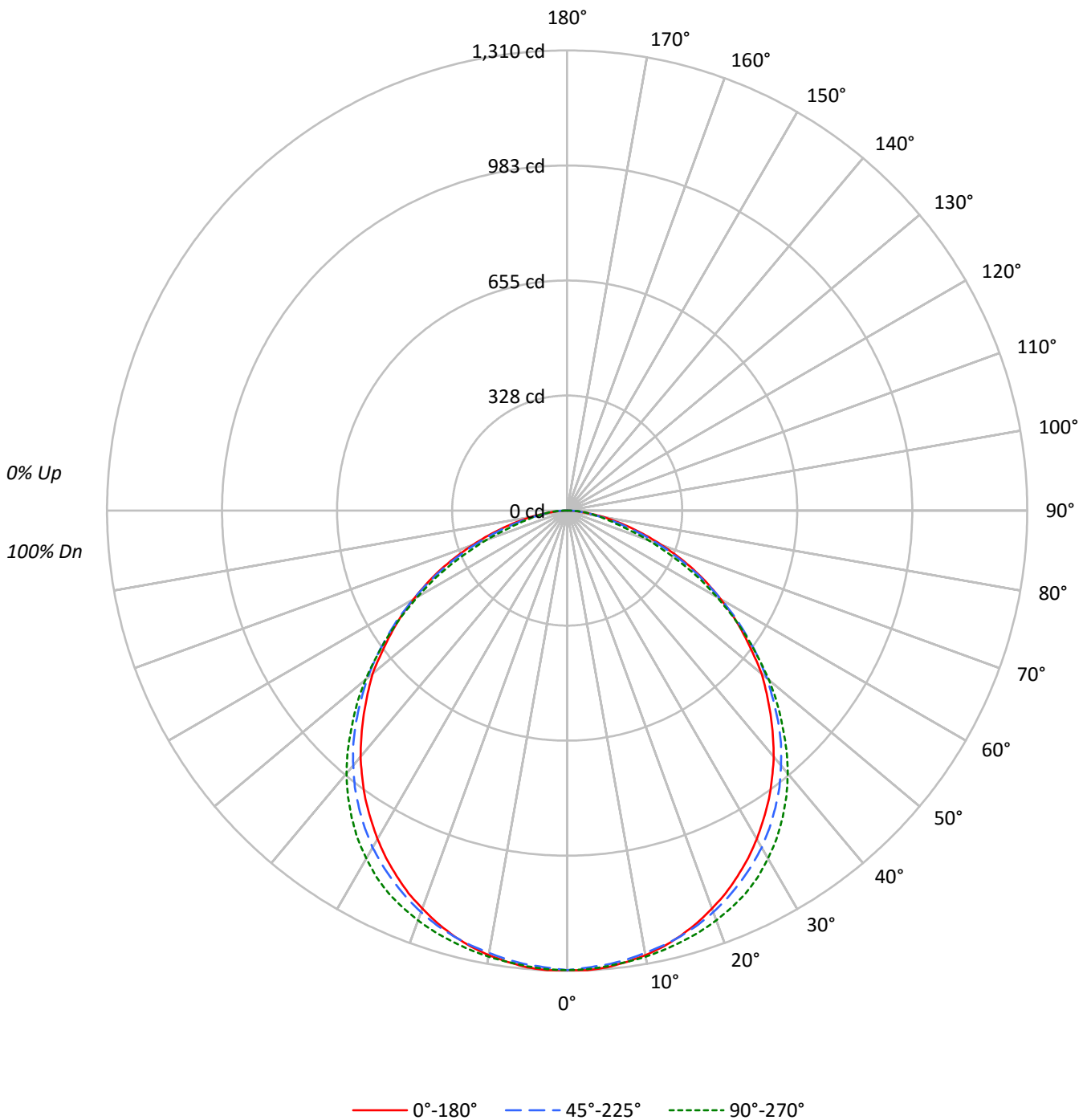
Input Watts (W): 34.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3521	3521	3521
5°	3526	3505	3518
10°	3512	3494	3524
15°	3489	3493	3537
20°	3453	3484	3555
25°	3409	3464	3571
30°	3355	3442	3553
35°	3291	3393	3511
40°	3214	3328	3432
45°	3114	3232	3298
50°	3028	3107	3139
55°	2876	2934	2920
60°	2721	2721	2646
65°	2526	2467	2328
70°	2240	2142	1934
75°	1941	1763	1488
80°	1592	1375	1350
85°	1056	1247	1346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	3.6
10°-20°	355.1	10.2
20°-30°	539.7	15.5
30°-40°	646.2	18.6
40°-50°	651.8	18.7
50°-60°	555.2	16.0
60°-70°	379.6	10.9
70°-80°	181.8	5.2
80°-90°	46.0	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°	1018.5	29.3
0°-40°	1664.7	47.8
0°-60°	2871.6	82.5
0°-90°	3479.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3479.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1308	1308	1308	1308	1308	
5°	1305	1304	1298	1304	1302	124
15°	1252	1249	1254	1268	1270	353
25°	1148	1150	1167	1193	1203	529
35°	1002	1005	1033	1063	1069	626
45°	818	824	849	867	867	632
55°	613	616	625	627	622	549
65°	397	389	387	373	366	391
75°	187	184	170	148	143	199
85°	34	37	40	42	44	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1308.4	1308.4	1308.4	1308.4	1308.4
2.5°	1309.9	1308.4	1302.2	1308.4	1306.8
5°	1305.3	1303.7	1297.5	1303.7	1302.2
7.5°	1295.9	1294.4	1289.7	1295.9	1295.9
10°	1285.1	1281.9	1278.8	1288.2	1289.7
12.5°	1271.0	1267.9	1267.9	1278.8	1280.4
15°	1252.4	1249.3	1253.9	1267.9	1269.5
17.5°	1230.6	1229.0	1236.8	1253.9	1257.0
20°	1205.7	1204.2	1216.6	1236.8	1241.5
22.5°	1179.3	1179.3	1193.3	1216.6	1222.8
25°	1148.1	1149.7	1166.8	1193.3	1202.6
27.5°	1115.5	1118.6	1138.8	1168.4	1176.1
30°	1079.7	1084.4	1107.7	1135.7	1143.5
32.5°	1040.8	1045.5	1071.9	1101.5	1109.3
35°	1001.9	1005.0	1033.0	1062.6	1068.8
37.5°	958.3	963.0	992.6	1019.0	1025.2
40°	914.8	919.4	947.5	972.3	977.0
42.5°	866.6	872.8	900.8	921.0	924.1
45°	818.3	824.5	849.4	866.6	866.6
47.5°	770.1	773.2	795.0	812.1	810.5
50°	723.4	721.9	742.1	749.9	749.9
52.5°	665.9	670.5	684.5	689.2	684.5
55°	613.0	616.1	625.4	627.0	622.3
57.5°	561.6	560.1	567.8	563.2	557.0
60°	505.6	505.6	505.6	501.0	491.6
62.5°	451.2	448.1	446.5	435.6	430.9
65°	396.7	388.9	387.4	373.4	365.6
67.5°	339.2	336.0	328.3	314.3	300.3
70°	284.7	281.6	272.3	255.1	245.8
72.5°	234.9	231.8	219.4	199.1	186.7
75°	186.7	183.6	169.6	147.8	143.1
77.5°	141.6	140.0	126.0	115.1	113.6
80°	102.7	101.1	88.7	88.7	87.1
82.5°	65.3	65.3	62.2	63.8	65.3
85°	34.2	37.3	40.4	42.0	43.6
87.5°	10.9	17.1	20.2	21.8	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)