

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: P296767

Luminaire Tested: **D3X-WD-31L82765-LD5-UNV-24-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-31L82765-LD5-UNV-24-T1-W2A-6500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3042.0 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

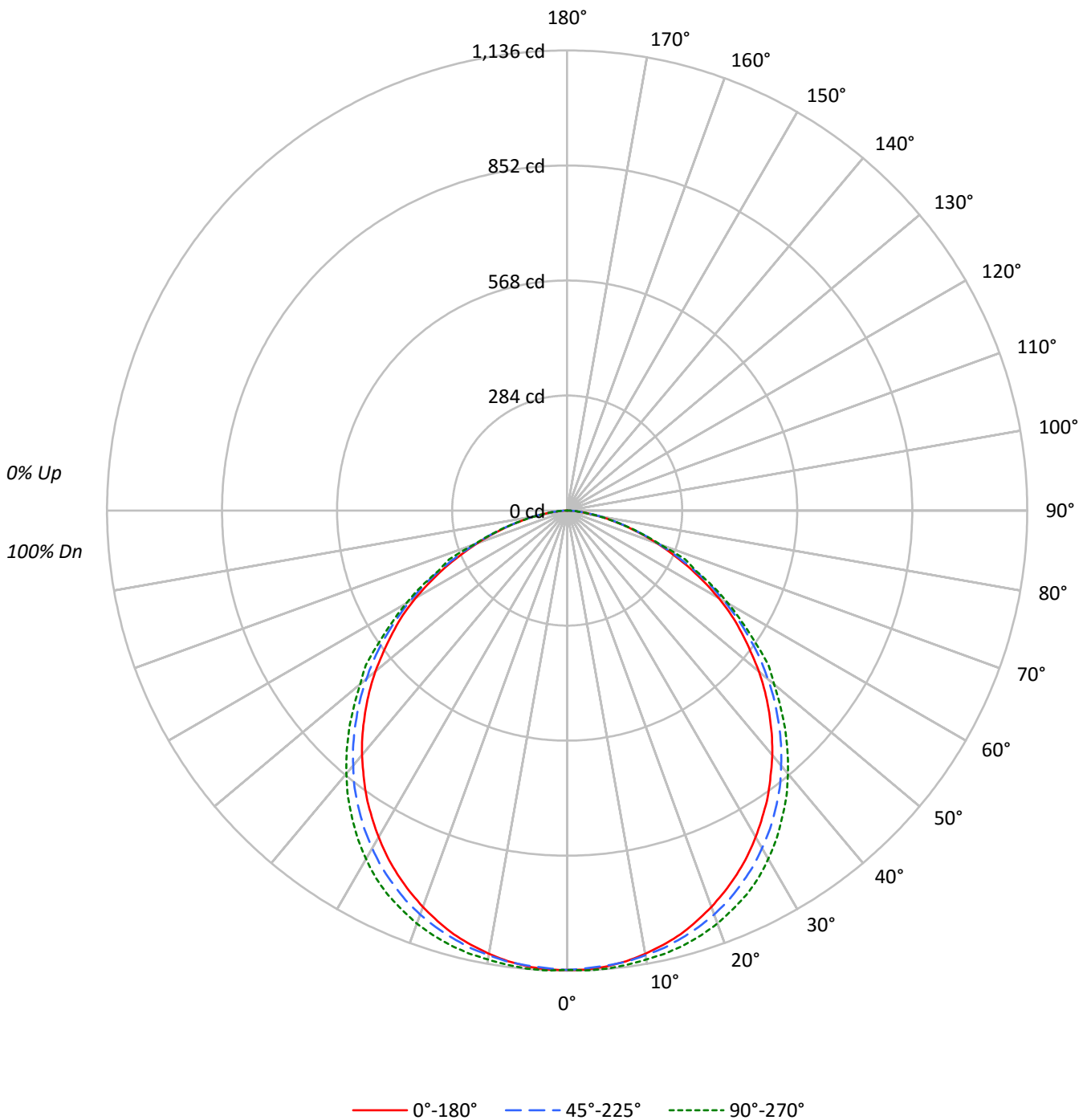
Input Watts (W): 22.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
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	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1526	1526	1526
5°	1526	1523	1533
10°	1518	1523	1537
15°	1508	1522	1548
20°	1491	1519	1553
25°	1471	1510	1554
30°	1446	1496	1543
35°	1418	1474	1520
40°	1384	1444	1490
45°	1342	1404	1448
50°	1293	1355	1396
55°	1234	1290	1329
60°	1163	1207	1237
65°	1056	1091	1112
70°	928	949	962
75°	783	794	800
80°	626	635	618
85°	421	438	421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	3.5
10°-20°	309.1	10.2
20°-30°	468.9	15.4
30°-40°	559.9	18.4
40°-50°	566.8	18.6
50°-60°	489.9	16.1
60°-70°	339.6	11.2
70°-80°	164.3	5.4
80°-90°	36.1	1.2
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°	885.5	29.1
0°-40°	1445.3	47.5
0°-60°	2502.0	82.2
0°-90°	3042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3042.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1130	1129	1128	1133	1135	107
15°	1083	1085	1093	1106	1111	305
25°	991	998	1017	1038	1047	456
35°	863	871	897	920	926	539
45°	705	715	738	756	761	544
55°	526	532	550	573	566	470
65°	332	335	343	348	349	328
75°	151	152	153	152	154	162
85°	27	30	28	27	27	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1134.0	1134.0	1134.0	1134.0	<i>1134.0</i>
2.5°	<i>1134.0</i>	<i>1132.9</i>	<i>1130.8</i>	<i>1134.0</i>	<i>1136.2</i>
5°	1129.7	1128.6	1127.5	1132.9	<i>1135.1</i>
7.5°	1122.0	1122.0	1123.1	1128.6	<i>1130.8</i>
10°	1111.1	1112.2	1114.4	1123.1	<i>1125.3</i>
12.5°	1098.0	1100.2	1105.7	1115.5	<i>1119.8</i>
15°	1082.7	1084.9	1092.6	1105.7	<i>1111.1</i>
17.5°	1063.1	1067.5	1078.4	1093.7	<i>1099.1</i>
20°	1041.3	1046.7	1060.9	1078.4	<i>1084.9</i>
22.5°	1017.2	1022.7	1041.3	1059.8	<i>1066.4</i>
25°	991.1	997.6	1017.2	1038.0	<i>1046.7</i>
27.5°	962.7	970.3	992.1	1014.0	<i>1022.7</i>
30°	931.0	939.8	962.7	985.6	<i>993.2</i>
32.5°	897.2	905.9	932.1	953.9	<i>961.6</i>
35°	863.4	871.0	897.2	920.1	<i>925.6</i>
37.5°	825.2	833.9	862.3	881.9	<i>889.5</i>
40°	788.0	796.8	821.9	841.5	<i>848.1</i>
42.5°	747.7	756.4	781.5	800.0	<i>805.5</i>
45°	705.1	714.9	737.8	756.4	<i>760.8</i>
47.5°	662.5	670.2	694.2	710.5	<i>713.8</i>
50°	617.8	625.4	647.2	663.6	<i>666.9</i>
52.5°	570.8	582.8	600.3	612.3	<i>626.5</i>
55°	526.1	531.5	550.1	573.0	<i>566.5</i>
57.5°	481.3	484.6	499.9	509.7	<i>511.9</i>
60°	432.2	436.6	448.6	454.1	<i>459.5</i>
62.5°	380.9	384.2	398.4	403.8	<i>406.0</i>
65°	331.8	335.1	342.7	348.2	<i>349.3</i>
67.5°	281.6	284.9	291.4	295.8	<i>315.4</i>
70°	235.8	237.9	241.2	249.9	<i>244.5</i>
72.5°	192.1	193.2	196.5	196.5	<i>197.6</i>
75°	150.6	151.7	152.8	151.7	<i>153.9</i>
77.5°	112.4	114.6	115.7	114.6	<i>113.5</i>
80°	80.8	83.0	81.9	79.7	<i>79.7</i>
82.5°	52.4	53.5	52.4	51.3	<i>51.3</i>
85°	27.3	29.5	28.4	27.3	<i>27.3</i>
87.5°	9.8	10.9	12.0	13.1	<i>13.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)