

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: P296762

Luminaire Tested: **D3X-WD-31L82765-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296762
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-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2905.0 lumens
Efficiency: N/A
Efficacy: 135.1 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

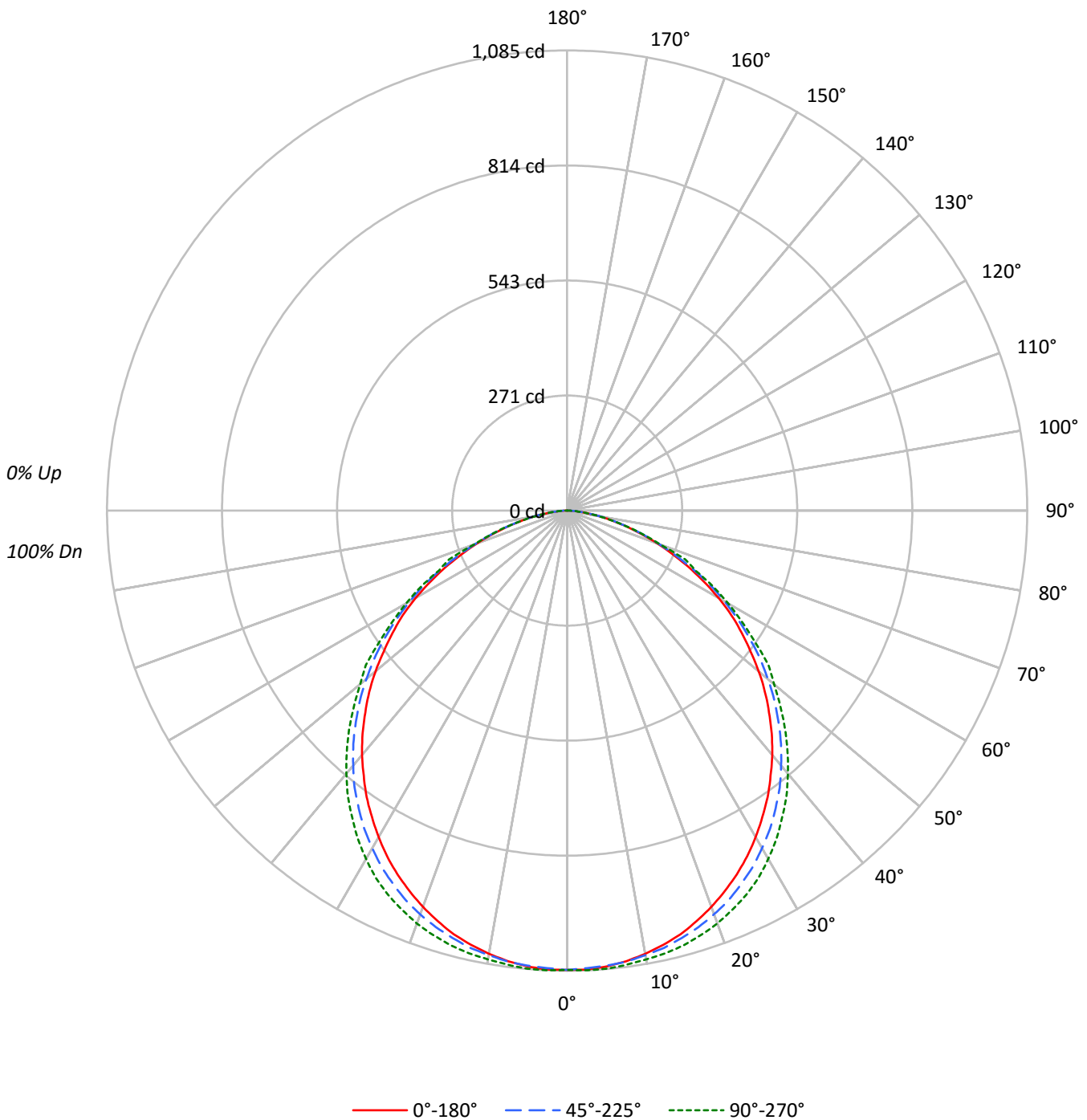
Input Watts (W): 21.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1457	1457	1457
5°	1457	1454	1464
10°	1450	1454	1468
15°	1440	1453	1478
20°	1424	1451	1484
25°	1405	1442	1484
30°	1381	1428	1474
35°	1354	1407	1452
40°	1322	1379	1423
45°	1281	1341	1382
50°	1235	1294	1333
55°	1179	1232	1269
60°	1111	1153	1181
65°	1009	1042	1062
70°	886	906	919
75°	748	758	764
80°	597	606	590
85°	403	418	403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	3.5
10°-20°	295.1	10.2
20°-30°	447.8	15.4
30°-40°	534.6	18.4
40°-50°	541.3	18.6
50°-60°	467.9	16.1
60°-70°	324.3	11.2
70°-80°	156.9	5.4
80°-90°	34.5	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°	845.6	29.1
0°-40°	1380.2	47.5
0°-60°	2389.3	82.2
0°-90°	2905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2905.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1083	1083	1083	1083	1083	
5°	1079	1078	1077	1082	1084	102
15°	1034	1036	1043	1056	1061	291
25°	946	953	971	991	1000	436
35°	824	832	857	879	884	515
45°	673	683	705	722	726	519
55°	502	508	525	547	541	449
65°	317	320	327	332	334	314
75°	144	145	146	145	147	154
85°	26	28	27	26	26	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1083.0	1081.9	1079.8	1083.0	1085.0
5°	1078.8	1077.8	1076.7	1081.9	1084.0
7.5°	1071.5	1071.5	1072.5	1077.8	1079.8
10°	1061.1	1062.1	1064.2	1072.5	1074.6
12.5°	1048.6	1050.7	1055.9	1065.2	1069.4
15°	1034.0	1036.1	1043.4	1055.9	1061.1
17.5°	1015.2	1019.4	1029.8	1044.4	1049.6
20°	994.4	999.6	1013.1	1029.8	1036.1
22.5°	971.4	976.6	994.4	1012.1	1018.3
25°	946.4	952.7	971.4	991.2	999.6
27.5°	919.3	926.6	947.5	968.3	976.6
30°	889.1	897.4	919.3	941.2	948.5
32.5°	856.8	865.1	890.1	911.0	918.3
35°	824.5	831.8	856.8	878.7	883.9
37.5°	788.0	796.3	823.4	842.2	849.5
40°	752.5	760.9	784.9	803.6	809.9
42.5°	714.0	722.3	746.3	764.0	769.2
45°	673.3	682.7	704.6	722.3	726.5
47.5°	632.7	640.0	662.9	678.5	681.7
50°	589.9	597.2	618.1	633.7	636.9
52.5°	545.1	556.6	573.3	584.7	598.3
55°	502.4	507.6	525.3	547.2	541.0
57.5°	459.7	462.8	477.4	486.8	488.8
60°	412.8	416.9	428.4	433.6	438.8
62.5°	363.8	366.9	380.4	385.7	387.7
65°	316.9	320.0	327.3	332.5	333.5
67.5°	268.9	272.0	278.3	282.5	301.2
70°	225.1	227.2	230.4	238.7	233.5
72.5°	183.4	184.5	187.6	187.6	188.7
75°	143.8	144.9	145.9	144.9	147.0
77.5°	107.4	109.4	110.5	109.4	108.4
80°	77.1	79.2	78.2	76.1	76.1
82.5°	50.0	51.1	50.0	49.0	49.0
85°	26.1	28.1	27.1	26.1	26.1
87.5°	9.4	10.4	11.5	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)