

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: P296761

Luminaire Tested: **D3X-WD-31L82765-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296761
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-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2842.0 lumens
Efficiency: N/A
Efficacy: 133.4 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

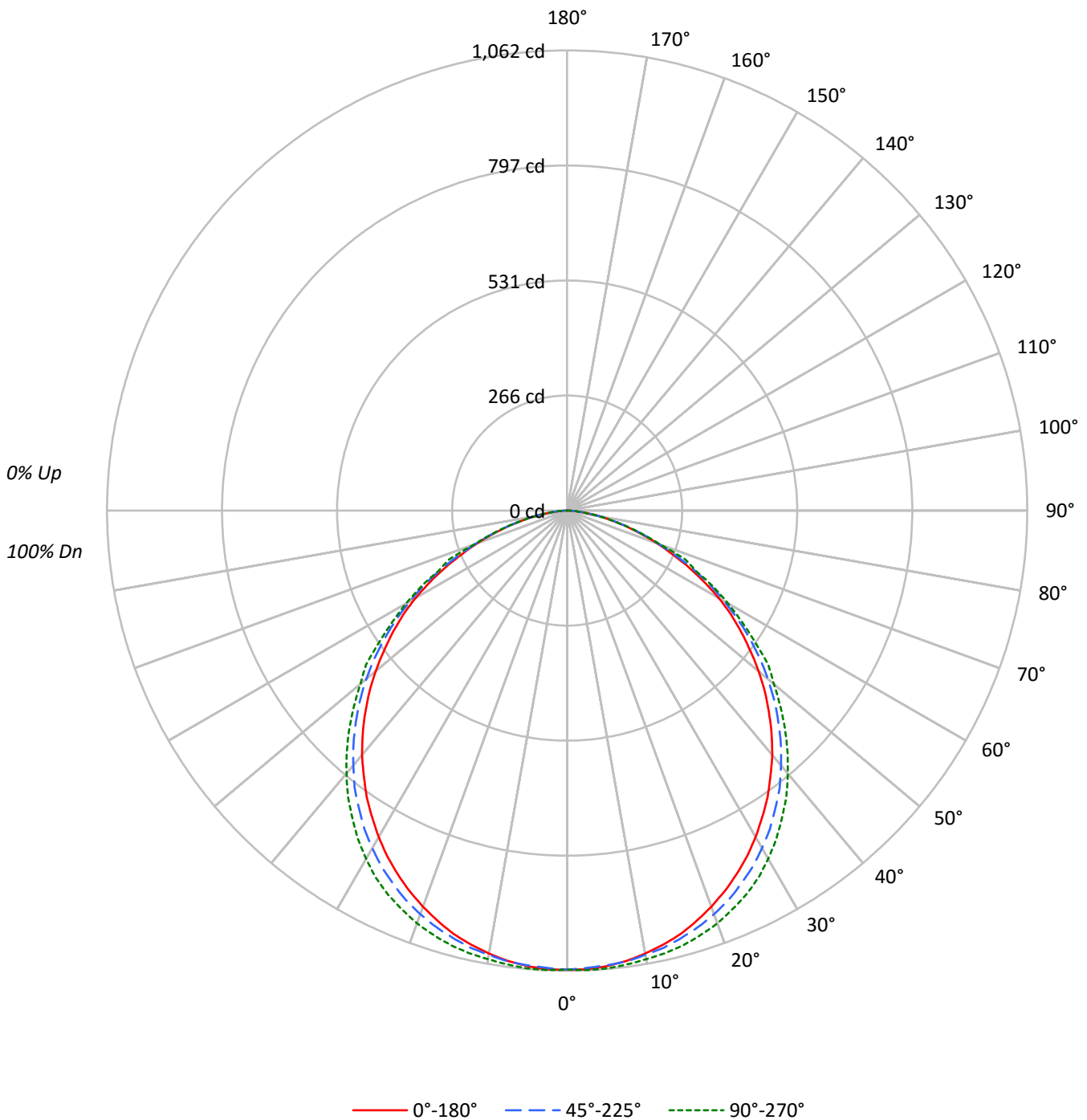
Input Watts (W): 21.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1426	1426	1426
5°	1425	1423	1432
10°	1418	1422	1436
15°	1409	1422	1446
20°	1393	1419	1451
25°	1375	1411	1452
30°	1351	1397	1442
35°	1325	1377	1420
40°	1293	1349	1392
45°	1253	1312	1352
50°	1208	1266	1304
55°	1153	1206	1241
60°	1087	1128	1155
65°	987	1019	1039
70°	867	887	899
75°	731	742	748
80°	585	593	576
85°	394	409	394



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	3.5
10°-20°	288.7	10.2
20°-30°	438.1	15.4
30°-40°	523.0	18.4
40°-50°	529.5	18.6
50°-60°	457.7	16.1
60°-70°	317.2	11.2
70°-80°	153.5	5.4
80°-90°	33.7	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°	827.3	29.1
0°-40°	1350.3	47.5
0°-60°	2337.5	82.2
0°-90°	2842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2842.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1055	1054	1053	1058	1060	100
15°	1012	1014	1021	1033	1038	285
25°	926	932	950	970	978	426
35°	807	814	838	860	865	504
45°	659	668	689	707	711	508
55°	492	497	514	535	529	439
65°	310	313	320	325	326	307
75°	141	142	143	142	144	151
85°	26	28	26	26	26	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1059.5	1059.5	1059.5	1059.5	1059.5
2.5°	1059.5	1058.5	1056.4	1059.5	1061.5
5°	1055.4	1054.4	1053.4	1058.5	1060.5
7.5°	1048.3	1048.3	1049.3	1054.4	1056.4
10°	1038.1	1039.1	1041.1	1049.3	1051.3
12.5°	1025.8	1027.9	1033.0	1042.1	1046.2
15°	1011.6	1013.6	1020.7	1033.0	1038.1
17.5°	993.2	997.3	1007.5	1021.7	1026.8
20°	972.8	977.9	991.2	1007.5	1013.6
22.5°	950.4	955.5	972.8	990.1	996.3
25°	925.9	932.0	950.4	969.7	977.9
27.5°	899.4	906.5	926.9	947.3	955.5
30°	869.8	878.0	899.4	920.8	927.9
32.5°	838.2	846.4	870.8	891.2	898.4
35°	806.6	813.7	838.2	859.6	864.7
37.5°	770.9	779.1	805.6	823.9	831.1
40°	736.2	744.4	767.8	786.2	792.3
42.5°	698.5	706.7	730.1	747.4	752.5
45°	658.7	667.9	689.3	706.7	710.7
47.5°	619.0	626.1	648.5	663.8	666.9
50°	577.2	584.3	604.7	620.0	623.0
52.5°	533.3	544.5	560.8	572.1	585.3
55°	491.5	496.6	513.9	535.3	529.2
57.5°	449.7	452.8	467.0	476.2	478.2
60°	403.8	407.9	419.1	424.2	429.3
62.5°	355.9	358.9	372.2	377.3	379.3
65°	310.0	313.1	320.2	325.3	326.3
67.5°	263.1	266.1	272.3	276.3	294.7
70°	220.3	222.3	225.4	233.5	228.4
72.5°	179.5	180.5	183.5	183.5	184.6
75°	140.7	141.7	142.8	141.7	143.8
77.5°	105.0	107.1	108.1	107.1	106.0
80°	75.5	77.5	76.5	74.4	74.4
82.5°	48.9	50.0	48.9	47.9	47.9
85°	25.5	27.5	26.5	25.5	25.5
87.5°	9.2	10.2	11.2	12.2	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)