

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: P298036

Luminaire Tested: **D3X-WD-40L82765-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
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-22-T1-W2A-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3498.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

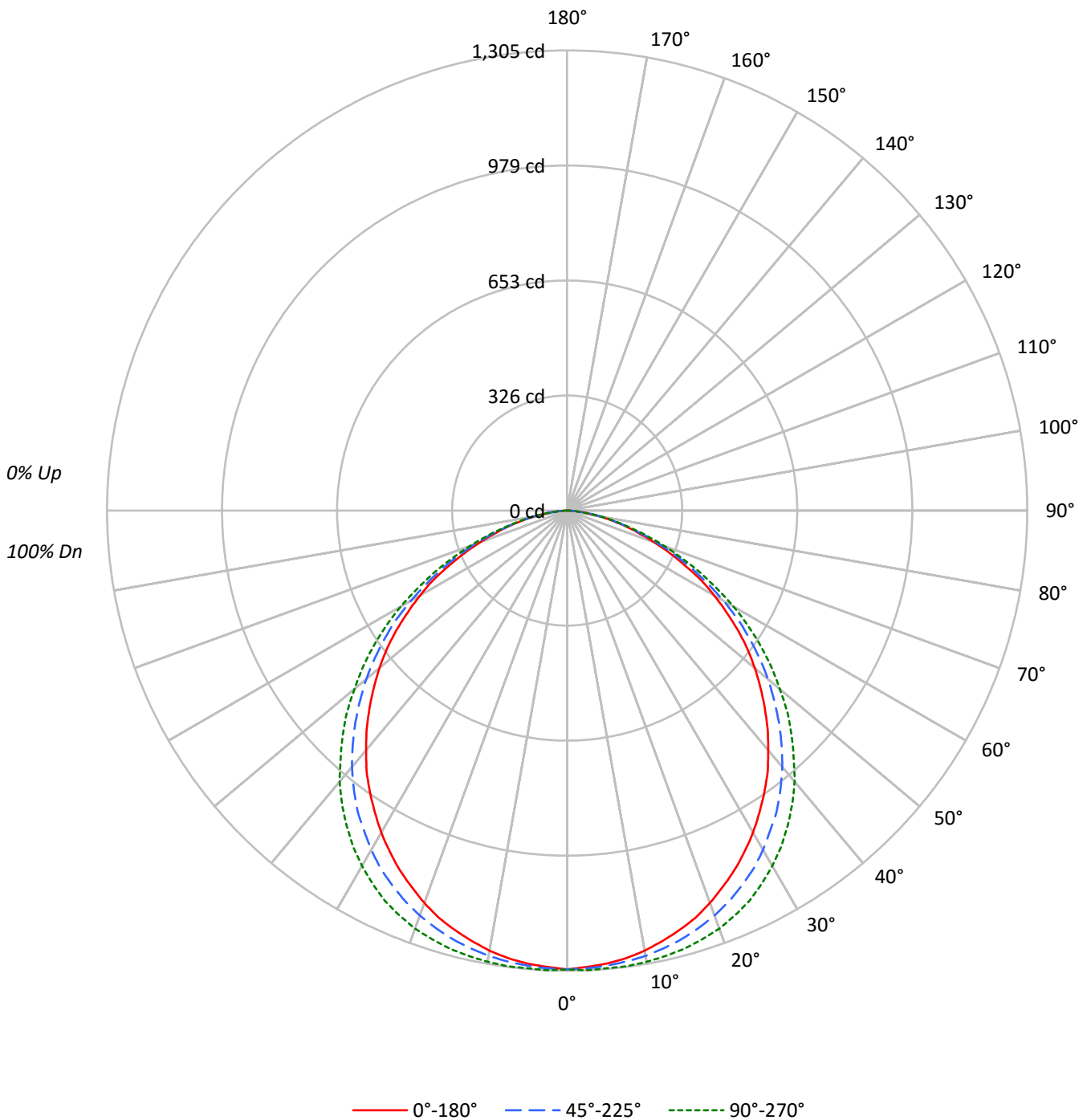
Input Watts (W): 31.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	31	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°	3501	3501	3501
5°	3484	3499	3519
10°	3463	3504	3550
15°	3431	3504	3583
20°	3391	3499	3613
25°	3338	3483	3628
30°	3276	3452	3616
35°	3204	3408	3581
40°	3115	3334	3525
45°	3017	3232	3425
50°	2909	3113	3295
55°	2774	2959	3145
60°	2594	2756	2939
65°	2350	2493	2649
70°	2074	2178	2296
75°	1781	1821	1899
80°	1430	1458	1488
85°	1047	929	929



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	3.5
10°-20°	355.2	10.2
20°-30°	540.2	15.4
30°-40°	646.3	18.5
40°-50°	653.4	18.7
50°-60°	562.3	16.1
60°-70°	388.2	11.1
70°-80°	188.2	5.4
80°-90°	40.8	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°	1018.7	29.1
0°-40°	1665.0	47.6
0°-60°	2880.7	82.4
0°-90°	3498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3498.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1301	1301	1301	1301	1301	
5°	1290	1292	1295	1301	1303	122
15°	1231	1239	1258	1277	1286	347
25°	1124	1137	1173	1209	1222	518
35°	975	992	1038	1075	1090	610
45°	793	808	849	885	900	611
55°	591	601	631	659	670	527
65°	369	375	392	409	416	367
75°	171	168	175	181	183	182
85°	34	34	30	30	30	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1295.4	1295.4	1299.2	1302.9	1304.8
5°	1289.8	1291.6	1295.4	1301.1	1302.9
7.5°	1280.3	1282.2	1289.8	1299.2	1302.9
10°	1267.2	1270.9	1282.2	1293.5	1299.2
12.5°	1250.2	1257.7	1270.9	1286.0	1293.5
15°	1231.4	1238.9	1257.7	1276.6	1286.0
17.5°	1210.7	1218.2	1240.8	1265.3	1274.7
20°	1184.3	1195.6	1222.0	1250.2	1261.5
22.5°	1154.2	1169.3	1199.4	1229.5	1242.7
25°	1124.1	1137.2	1173.0	1208.8	1222.0
27.5°	1090.2	1105.2	1144.8	1180.5	1193.7
30°	1054.4	1069.5	1110.9	1150.4	1163.6
32.5°	1014.9	1033.7	1073.2	1114.6	1129.7
35°	975.3	992.3	1037.5	1075.1	1090.2
37.5°	933.9	949.0	994.1	1033.7	1048.7
40°	886.8	903.8	949.0	988.5	1003.6
42.5°	841.6	858.6	900.0	937.7	950.8
45°	792.7	807.7	849.2	884.9	900.0
47.5°	743.7	760.7	796.4	832.2	847.3
50°	694.8	708.0	743.7	777.6	787.0
52.5°	643.9	655.2	687.2	717.4	730.5
55°	591.2	600.6	630.8	659.0	670.3
57.5°	534.7	546.0	574.3	595.0	608.2
60°	482.0	487.7	512.1	532.8	546.0
62.5°	429.3	431.2	450.0	470.7	478.2
65°	369.0	374.7	391.6	408.6	416.1
67.5°	314.4	320.1	333.3	346.4	352.1
70°	263.6	263.6	276.8	286.2	291.8
72.5°	212.8	214.6	224.1	229.7	235.4
75°	171.3	167.6	175.1	180.8	182.6
77.5°	128.0	126.2	131.8	133.7	137.4
80°	92.3	92.3	94.1	96.0	96.0
82.5°	60.3	60.3	62.1	58.4	56.5
85°	33.9	33.9	30.1	30.1	30.1
87.5°	11.3	11.3	11.3	13.2	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)