

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: P298043

Luminaire Tested: **D3X-WD-40L82765-LD5-UNV-22-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298043
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-6500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3873.0 lumens
Efficiency: N/A
Efficacy: 115.6 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

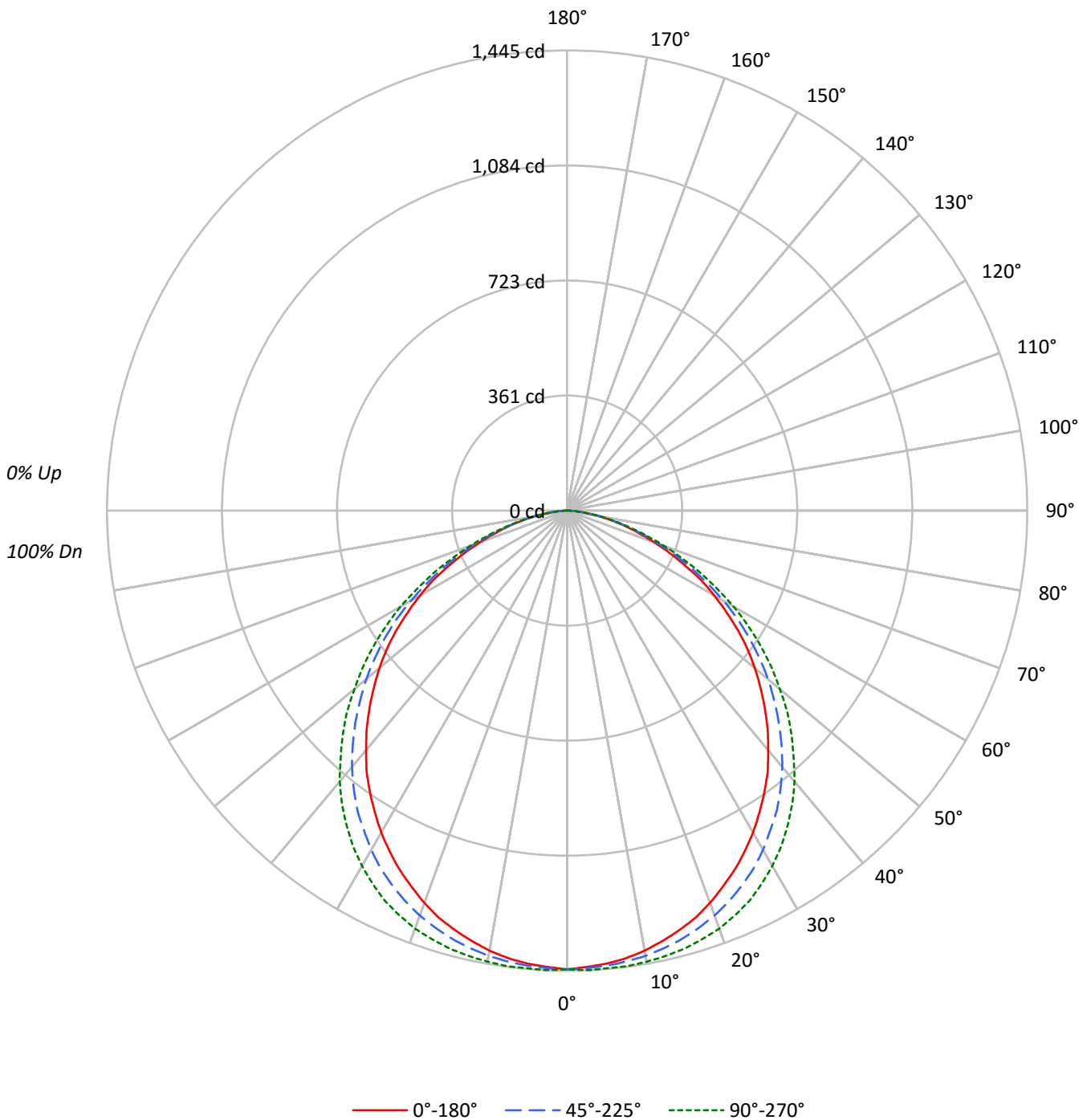
Input Watts (W): 33.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3876	3876	3876
5°	3857	3874	3897
10°	3834	3879	3930
15°	3798	3880	3967
20°	3755	3875	4000
25°	3695	3856	4017
30°	3627	3822	4003
35°	3548	3774	3965
40°	3449	3691	3903
45°	3340	3578	3792
50°	3221	3448	3648
55°	3071	3277	3482
60°	2872	3052	3254
65°	2602	2761	2933
70°	2297	2412	2542
75°	1972	2016	2102
80°	1584	1615	1647
85°	1158	1031	1031



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	3.5
10°-20°	393.2	10.2
20°-30°	598.1	15.4
30°-40°	715.6	18.5
40°-50°	723.5	18.7
50°-60°	622.6	16.1
60°-70°	429.8	11.1
70°-80°	208.4	5.4
80°-90°	45.2	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°	1127.9	29.1
0°-40°	1843.5	47.6
0°-60°	3189.6	82.4
0°-90°	3873.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3873.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1440	1440	1440	1440	1440	
5°	1428	1430	1434	1440	1443	136
15°	1363	1372	1393	1413	1424	385
25°	1245	1259	1299	1338	1353	573
35°	1080	1099	1149	1190	1207	675
45°	878	894	940	980	996	677
55°	655	665	698	730	742	584
65°	409	415	434	452	461	407
75°	190	186	194	200	202	201
85°	38	38	33	33	33	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1440.5	1440.5	1440.5	1440.5	1440.5
2.5°	1434.3	1434.3	1438.4	1442.6	1444.7
5°	1428.0	1430.1	1434.3	1440.5	1442.6
7.5°	1417.6	1419.7	1428.0	1438.4	1442.6
10°	1403.0	1407.2	1419.7	1432.2	1438.4
12.5°	1384.2	1392.6	1407.2	1423.9	1432.2
15°	1363.4	1371.7	1392.6	1413.4	1423.9
17.5°	1340.5	1348.8	1373.8	1400.9	1411.3
20°	1311.3	1323.8	1353.0	1384.2	1396.7
22.5°	1277.9	1294.6	1328.0	1361.3	1375.9
25°	1244.6	1259.2	1298.8	1338.4	1353.0
27.5°	1207.0	1223.7	1267.5	1307.1	1321.7
30°	1167.4	1184.1	1230.0	1273.8	1288.3
32.5°	1123.7	1144.5	1188.3	1234.1	1250.8
35°	1079.9	1098.6	1148.7	1190.4	1207.0
37.5°	1034.0	1050.7	1100.7	1144.5	1161.2
40°	981.9	1000.7	1050.7	1094.5	1111.1
42.5°	931.9	950.6	996.5	1038.2	1052.8
45°	877.7	894.3	940.2	979.8	996.5
47.5°	823.5	842.2	881.8	921.4	938.1
50°	769.3	783.8	823.5	861.0	871.4
52.5°	713.0	725.5	760.9	794.3	808.9
55°	654.6	665.0	698.4	729.6	742.2
57.5°	592.1	604.6	635.8	658.8	673.4
60°	533.7	539.9	567.0	590.0	604.6
62.5°	475.3	477.4	498.2	521.2	529.5
65°	408.6	414.9	433.6	452.4	460.7
67.5°	348.1	354.4	369.0	383.6	389.8
70°	291.9	291.9	306.5	316.9	323.1
72.5°	235.6	237.7	248.1	254.3	260.6
75°	189.7	185.5	193.9	200.1	202.2
77.5°	141.8	139.7	145.9	148.0	152.2
80°	102.2	102.2	104.2	106.3	106.3
82.5°	66.7	66.7	68.8	64.6	62.5
85°	37.5	37.5	33.4	33.4	33.4
87.5°	12.5	12.5	12.5	14.6	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)