

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: P298049

Luminaire Tested: **D3X-WD-44L82765-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298049
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-44L82765-LD5-UNV-22-T1-W2A-5000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4178.0 lumens
Efficiency: N/A
Efficacy: 114.5 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

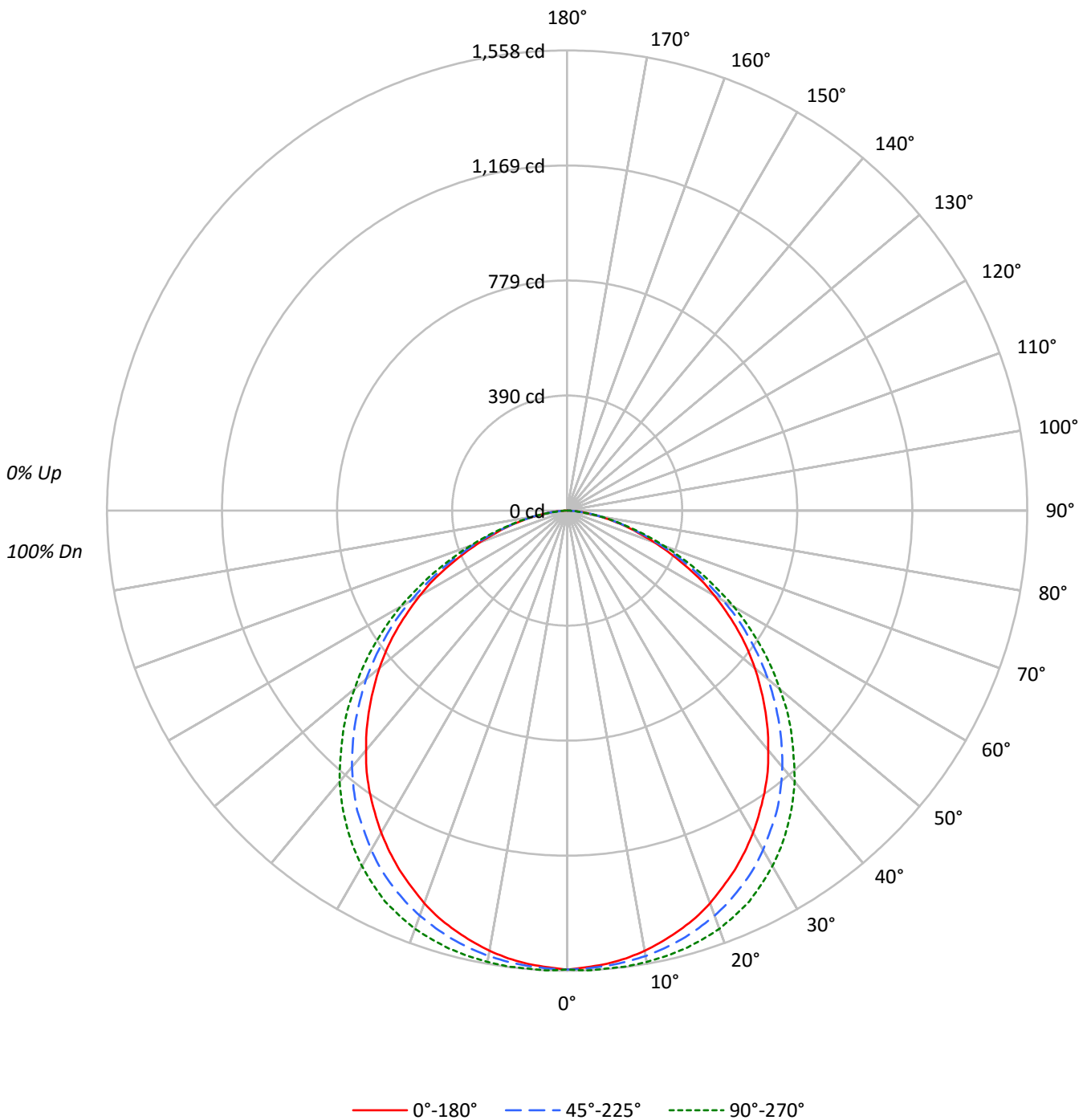
Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4182	4182	4182
5°	4161	4179	4204
10°	4136	4185	4240
15°	4098	4185	4279
20°	4051	4180	4315
25°	3986	4160	4333
30°	3913	4123	4318
35°	3827	4071	4278
40°	3721	3981	4210
45°	3603	3860	4091
50°	3474	3719	3935
55°	3313	3535	3756
60°	3098	3292	3510
65°	2807	2979	3165
70°	2477	2601	2743
75°	2127	2174	2268
80°	1708	1742	1777
85°	1250	1112	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.3	3.5
10°-20°	424.2	10.2
20°-30°	645.2	15.4
30°-40°	772.0	18.5
40°-50°	780.4	18.7
50°-60°	671.6	16.1
60°-70°	463.7	11.1
70°-80°	224.8	5.4
80°-90°	48.8	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°	1216.7	29.1
0°-40°	1988.7	47.6
0°-60°	3440.7	82.4
0°-90°	4178.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4178.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1554	1554	1554	1554	1554	
5°	1540	1543	1547	1554	1556	146
15°	1471	1480	1502	1525	1536	415
25°	1343	1358	1401	1444	1460	618
35°	1165	1185	1239	1284	1302	728
45°	947	965	1014	1057	1075	730
55°	706	717	753	787	801	630
65°	441	448	468	488	497	439
75°	205	200	209	216	218	217
85°	40	40	36	36	36	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1554.0	1554.0	1554.0	1554.0	1554.0
2.5°	1547.2	1547.2	1551.7	1556.2	1558.5
5°	1540.5	1542.7	1547.2	1554.0	1556.2
7.5°	1529.2	1531.5	1540.5	1551.7	1556.2
10°	1513.5	1518.0	1531.5	1545.0	1551.7
12.5°	1493.3	1502.2	1518.0	1536.0	1545.0
15°	1470.8	1479.8	1502.2	1524.7	1536.0
17.5°	1446.0	1455.0	1482.0	1511.2	1522.5
20°	1414.5	1428.0	1459.5	1493.3	1506.7
22.5°	1378.6	1396.5	1432.5	1468.5	1484.3
25°	1342.6	1358.3	1401.0	1443.8	1459.5
27.5°	1302.1	1320.1	1367.3	1410.0	1425.8
30°	1259.4	1277.4	1326.8	1374.1	1389.8
32.5°	1212.1	1234.6	1281.9	1331.3	1349.3
35°	1164.9	1185.2	1239.1	1284.1	1302.1
37.5°	1115.4	1133.4	1187.4	1234.6	1252.6
40°	1059.2	1079.5	1133.4	1180.7	1198.6
42.5°	1005.2	1025.5	1075.0	1119.9	1135.7
45°	946.8	964.8	1014.2	1057.0	1075.0
47.5°	888.3	908.5	951.3	994.0	1012.0
50°	829.8	845.6	888.3	928.8	940.0
52.5°	769.1	782.6	820.8	856.8	872.6
55°	706.1	717.4	753.4	787.1	800.6
57.5°	638.7	652.2	685.9	710.6	726.4
60°	575.7	582.5	611.7	636.4	652.2
62.5°	512.7	515.0	537.5	562.2	571.2
65°	440.8	447.5	467.8	488.0	497.0
67.5°	375.6	382.3	398.1	413.8	420.5
70°	314.8	314.8	330.6	341.8	348.6
72.5°	254.1	256.4	267.6	274.4	281.1
75°	204.6	200.1	209.1	215.9	218.1
77.5°	152.9	150.7	157.4	159.7	164.2
80°	110.2	110.2	112.4	114.7	114.7
82.5°	72.0	72.0	74.2	69.7	67.5
85°	40.5	40.5	36.0	36.0	36.0
87.5°	13.5	13.5	13.5	15.7	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)