

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: P298047

Luminaire Tested: **D3X-WD-44L82765-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298047
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-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4050.0 lumens
Efficiency: N/A
Efficacy: 112.5 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

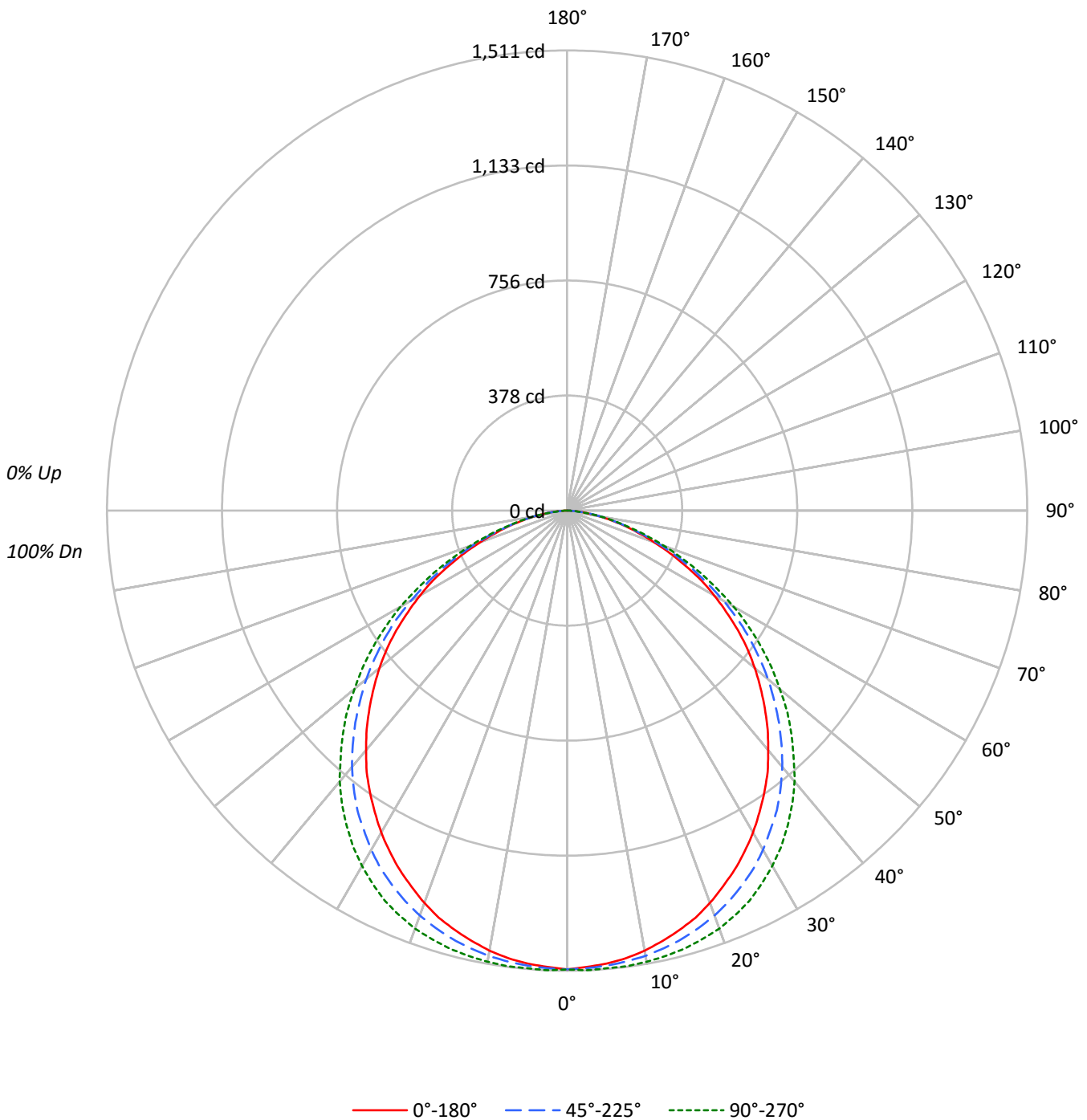
Input Watts (W): 36
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4054	4054	4054
5°	4034	4051	4075
10°	4009	4057	4110
15°	3972	4057	4148
20°	3927	4052	4183
25°	3864	4032	4201
30°	3793	3997	4186
35°	3710	3946	4146
40°	3607	3860	4082
45°	3493	3742	3965
50°	3368	3605	3815
55°	3211	3426	3641
60°	3004	3192	3402
65°	2721	2887	3068
70°	2401	2522	2659
75°	2063	2108	2199
80°	1655	1689	1723
85°	1210	1078	1078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.8	3.5
10°-20°	411.2	10.2
20°-30°	625.5	15.4
30°-40°	748.3	18.5
40°-50°	756.5	18.7
50°-60°	651.0	16.1
60°-70°	449.5	11.1
70°-80°	217.9	5.4
80°-90°	47.3	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°	1179.4	29.1
0°-40°	1927.7	47.6
0°-60°	3335.3	82.4
0°-90°	4050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4050.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1506	1506	1506	1506	1506	
5°	1493	1496	1500	1506	1508	142
15°	1426	1434	1456	1478	1489	402
25°	1301	1317	1358	1400	1415	599
35°	1129	1149	1201	1245	1262	706
45°	918	935	983	1025	1042	708
55°	684	695	730	763	776	610
65°	427	434	453	473	482	425
75°	198	194	203	209	212	211
85°	39	39	35	35	35	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1506.4	1506.4	1506.4	1506.4	1506.4
2.5°	1499.8	1499.8	1504.2	1508.5	1510.7
5°	1493.3	1495.5	1499.8	1506.4	1508.5
7.5°	1482.4	1484.6	1493.3	1504.2	1508.5
10°	1467.1	1471.5	1484.6	1497.6	1504.2
12.5°	1447.5	1456.2	1471.5	1488.9	1497.6
15°	1425.7	1434.4	1456.2	1478.0	1488.9
17.5°	1401.7	1410.4	1436.6	1464.9	1475.8
20°	1371.2	1384.3	1414.8	1447.5	1460.6
22.5°	1336.3	1353.8	1388.6	1423.5	1438.8
25°	1301.4	1316.7	1358.1	1399.5	1414.8
27.5°	1262.2	1279.6	1325.4	1366.8	1382.1
30°	1220.8	1238.2	1286.2	1332.0	1347.2
32.5°	1175.0	1196.8	1242.6	1290.5	1308.0
35°	1129.2	1148.8	1201.2	1244.8	1262.2
37.5°	1081.3	1098.7	1151.0	1196.8	1214.2
40°	1026.8	1046.4	1098.7	1144.5	1161.9
42.5°	974.4	994.1	1042.0	1085.6	1100.9
45°	917.8	935.2	983.2	1024.6	1042.0
47.5°	861.1	880.7	922.1	963.5	981.0
50°	804.4	819.7	861.1	900.3	911.2
52.5°	745.6	758.6	795.7	830.6	845.8
55°	684.5	695.4	730.3	763.0	776.1
57.5°	619.1	632.2	664.9	688.9	704.1
60°	558.1	564.6	593.0	616.9	632.2
62.5°	497.0	499.2	521.0	545.0	553.7
65°	427.3	433.8	453.4	473.1	481.8
67.5°	364.1	370.6	385.9	401.1	407.7
70°	305.2	305.2	320.5	331.4	337.9
72.5°	246.3	248.5	259.4	266.0	272.5
75°	198.4	194.0	202.7	209.3	211.5
77.5°	148.2	146.1	152.6	154.8	159.1
80°	106.8	106.8	109.0	111.2	111.2
82.5°	69.8	69.8	71.9	67.6	65.4
85°	39.2	39.2	34.9	34.9	34.9
87.5°	13.1	13.1	13.1	15.3	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)