

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: P296768

Luminaire Tested: **D3X-WD-36L82765-LD5-UNV-24-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296768
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-36L82765-LD5-UNV-24-T1-W2A-2700K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3164.0 lumens
Efficiency: N/A
Efficacy: 125.6 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

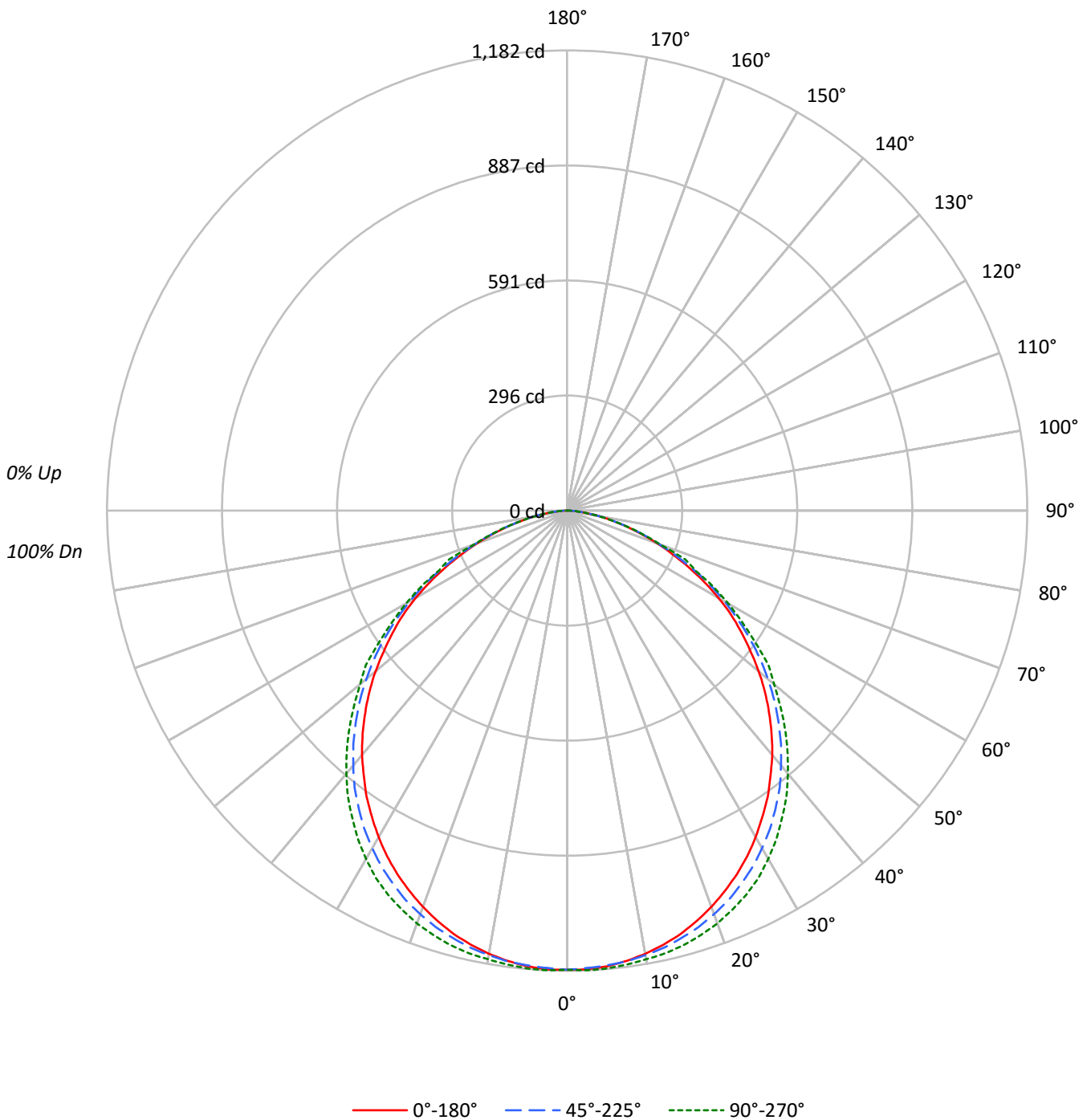
Input Watts (W): 25.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1587	1587	1587
5°	1587	1584	1595
10°	1579	1584	1599
15°	1569	1583	1610
20°	1551	1580	1616
25°	1530	1571	1616
30°	1505	1556	1605
35°	1475	1533	1581
40°	1440	1501	1549
45°	1396	1460	1506
50°	1345	1409	1452
55°	1284	1342	1382
60°	1210	1256	1286
65°	1099	1135	1157
70°	965	987	1000
75°	815	826	832
80°	651	659	642
85°	438	455	438



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	3.5
10°-20°	321.5	10.2
20°-30°	487.7	15.4
30°-40°	582.3	18.4
40°-50°	589.5	18.6
50°-60°	509.6	16.1
60°-70°	353.2	11.2
70°-80°	170.9	5.4
80°-90°	37.6	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°	921.0	29.1
0°-40°	1503.3	47.5
0°-60°	2602.3	82.2
0°-90°	3164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3164.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1180	1180	1180	1180	1180	
5°	1175	1174	1173	1178	1181	112
15°	1126	1128	1136	1150	1156	317
25°	1031	1038	1058	1080	1089	475
35°	898	906	933	957	963	561
45°	733	744	767	787	791	566
55°	547	553	572	596	589	489
65°	345	348	356	362	363	342
75°	157	158	159	158	160	168
85°	28	31	30	28	28	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1179.5	1179.5	1179.5	1179.5	1179.5
2.5°	1179.5	1178.4	1176.1	1179.5	1181.8
5°	1175.0	1173.8	1172.7	1178.4	1180.7
7.5°	1167.0	1167.0	1168.2	1173.8	1176.1
10°	1155.7	1156.8	1159.1	1168.2	1170.4
12.5°	1142.1	1144.3	1150.0	1160.2	1164.8
15°	1126.2	1128.4	1136.4	1150.0	1155.7
17.5°	1105.7	1110.3	1121.6	1137.5	1143.2
20°	1083.0	1088.7	1103.5	1121.6	1128.4
22.5°	1058.0	1063.7	1083.0	1102.3	1109.1
25°	1030.8	1037.6	1058.0	1079.6	1088.7
27.5°	1001.3	1009.2	1031.9	1054.6	1063.7
30°	968.4	977.4	1001.3	1025.1	1033.1
32.5°	933.2	942.3	969.5	992.2	1000.1
35°	898.0	905.9	933.2	957.0	962.7
37.5°	858.2	867.3	896.8	917.3	925.2
40°	819.6	828.7	854.8	875.3	882.1
42.5°	777.6	786.7	812.8	832.1	837.8
45°	733.4	743.6	767.4	786.7	791.3
47.5°	689.1	697.0	722.0	739.0	742.4
50°	642.5	650.5	673.2	690.2	693.6
52.5°	593.7	606.2	624.4	636.9	651.6
55°	547.2	552.9	572.2	596.0	589.2
57.5°	500.6	504.0	519.9	530.2	532.4
60°	449.6	454.1	466.6	472.3	477.9
62.5°	396.2	399.6	414.4	420.0	422.3
65°	345.1	348.5	356.5	362.1	363.3
67.5°	292.9	296.3	303.1	307.7	328.1
70°	245.2	247.5	250.9	260.0	254.3
72.5°	199.8	200.9	204.3	204.3	205.5
75°	156.7	157.8	158.9	157.8	160.1
77.5°	116.9	119.2	120.3	119.2	118.1
80°	84.0	86.3	85.1	82.9	82.9
82.5°	54.5	55.6	54.5	53.4	53.4
85°	28.4	30.7	29.5	28.4	28.4
87.5°	10.2	11.4	12.5	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)