

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: P296772

Luminaire Tested: **D3X-WD-36L82765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296772
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-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3502.0 lumens
Efficiency: N/A
Efficacy: 136.3 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

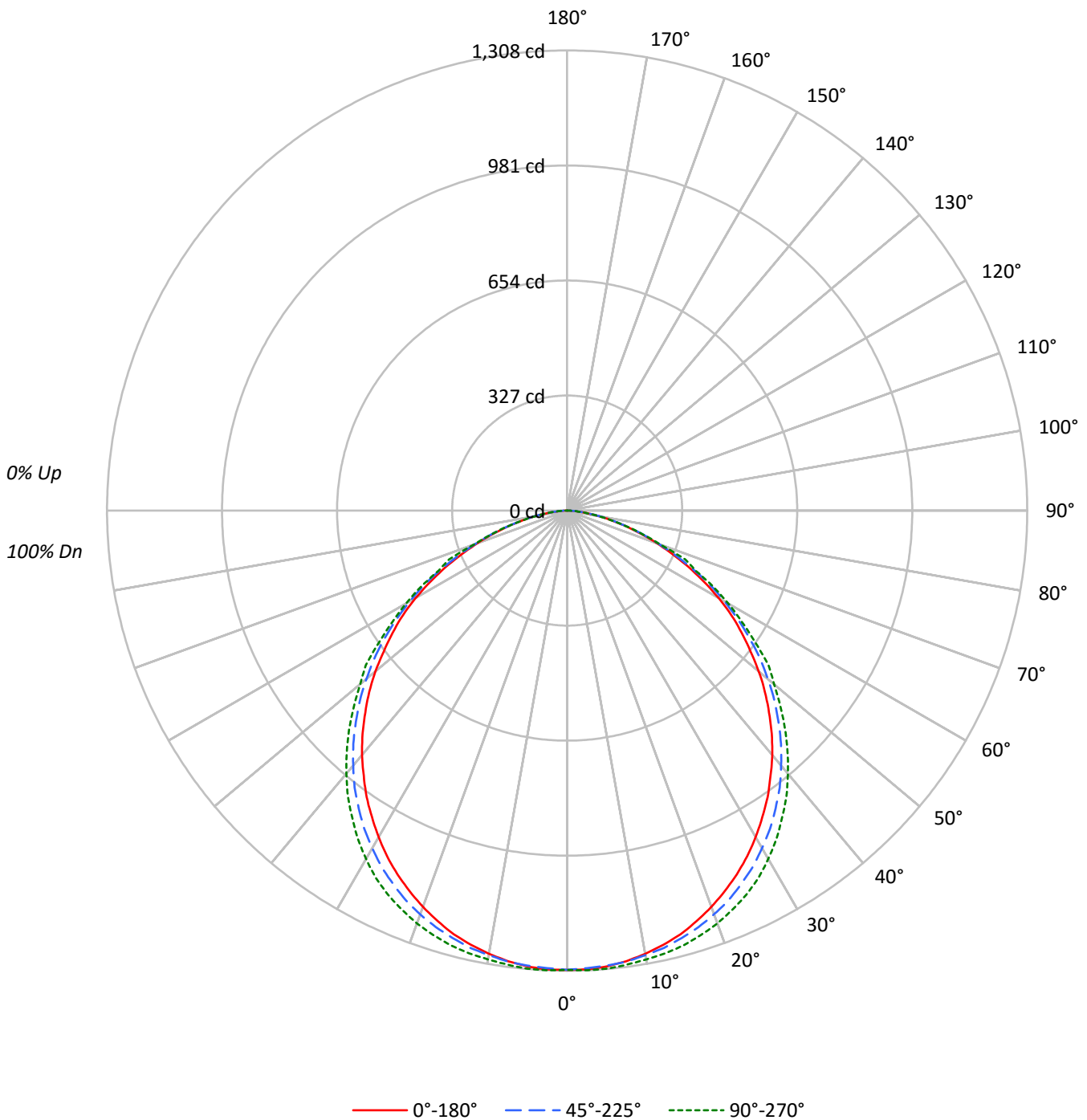
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1757	1757	1757
5°	1756	1753	1765
10°	1748	1753	1770
15°	1736	1752	1782
20°	1716	1749	1788
25°	1694	1739	1789
30°	1665	1722	1776
35°	1633	1697	1750
40°	1593	1662	1715
45°	1545	1616	1666
50°	1489	1560	1607
55°	1421	1486	1530
60°	1339	1390	1424
65°	1216	1256	1280
70°	1068	1092	1107
75°	901	914	921
80°	721	730	711
85°	485	505	485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	3.5
10°-20°	355.8	10.2
20°-30°	539.8	15.4
30°-40°	644.5	18.4
40°-50°	652.5	18.6
50°-60°	564.0	16.1
60°-70°	390.9	11.2
70°-80°	189.1	5.4
80°-90°	41.6	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°	1019.4	29.1
0°-40°	1663.9	47.5
0°-60°	2880.4	82.2
0°-90°	3502.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3502.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1306	1306	1306	1306	1306	
5°	1300	1299	1298	1304	1307	123
15°	1246	1249	1258	1273	1279	351
25°	1141	1148	1171	1195	1205	525
35°	994	1003	1033	1059	1066	621
45°	812	823	849	871	876	626
55°	606	612	633	660	652	541
65°	382	386	394	401	402	378
75°	173	175	176	175	177	186
85°	31	34	33	31	31	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1305.5	1305.5	1305.5	1305.5	1305.5
2.5°	1305.5	1304.3	1301.8	1305.5	1308.0
5°	1300.5	1299.2	1298.0	1304.3	1306.8
7.5°	1291.7	1291.7	1293.0	1299.2	1301.8
10°	1279.1	1280.4	1282.9	1293.0	1295.5
12.5°	1264.1	1266.6	1272.9	1284.2	1289.2
15°	1246.5	1249.0	1257.8	1272.9	1279.1
17.5°	1223.8	1228.9	1241.4	1259.0	1265.3
20°	1198.7	1205.0	1221.3	1241.4	1249.0
22.5°	1171.1	1177.4	1198.7	1220.1	1227.6
25°	1140.9	1148.5	1171.1	1194.9	1205.0
27.5°	1108.2	1117.0	1142.2	1167.3	1177.4
30°	1071.8	1081.9	1108.2	1134.6	1143.4
32.5°	1032.9	1042.9	1073.1	1098.2	1107.0
35°	993.9	1002.7	1032.9	1059.2	1065.5
37.5°	949.9	960.0	992.6	1015.3	1024.1
40°	907.2	917.3	946.2	968.8	976.3
42.5°	860.7	870.8	899.7	921.0	927.3
45°	811.7	823.0	849.4	870.8	875.8
47.5°	762.7	771.5	799.1	818.0	821.8
50°	711.2	720.0	745.1	764.0	767.7
52.5°	657.2	671.0	691.1	704.9	721.2
55°	605.6	611.9	633.3	659.7	652.1
57.5°	554.1	557.9	575.5	586.8	589.3
60°	497.6	502.6	516.4	522.7	529.0
62.5°	438.5	442.3	458.6	464.9	467.4
65°	382.0	385.8	394.5	400.8	402.1
67.5°	324.2	328.0	335.5	340.5	363.1
70°	271.4	273.9	277.7	287.7	281.5
72.5°	221.1	222.4	226.2	226.2	227.4
75°	173.4	174.7	175.9	174.7	177.2
77.5°	129.4	131.9	133.2	131.9	130.7
80°	93.0	95.5	94.2	91.7	91.7
82.5°	60.3	61.6	60.3	59.1	59.1
85°	31.4	33.9	32.7	31.4	31.4
87.5°	11.3	12.6	13.8	15.1	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)