

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: P297321

Luminaire Tested: **D3X-WO-31L82765-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-31L82765-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3028.0 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

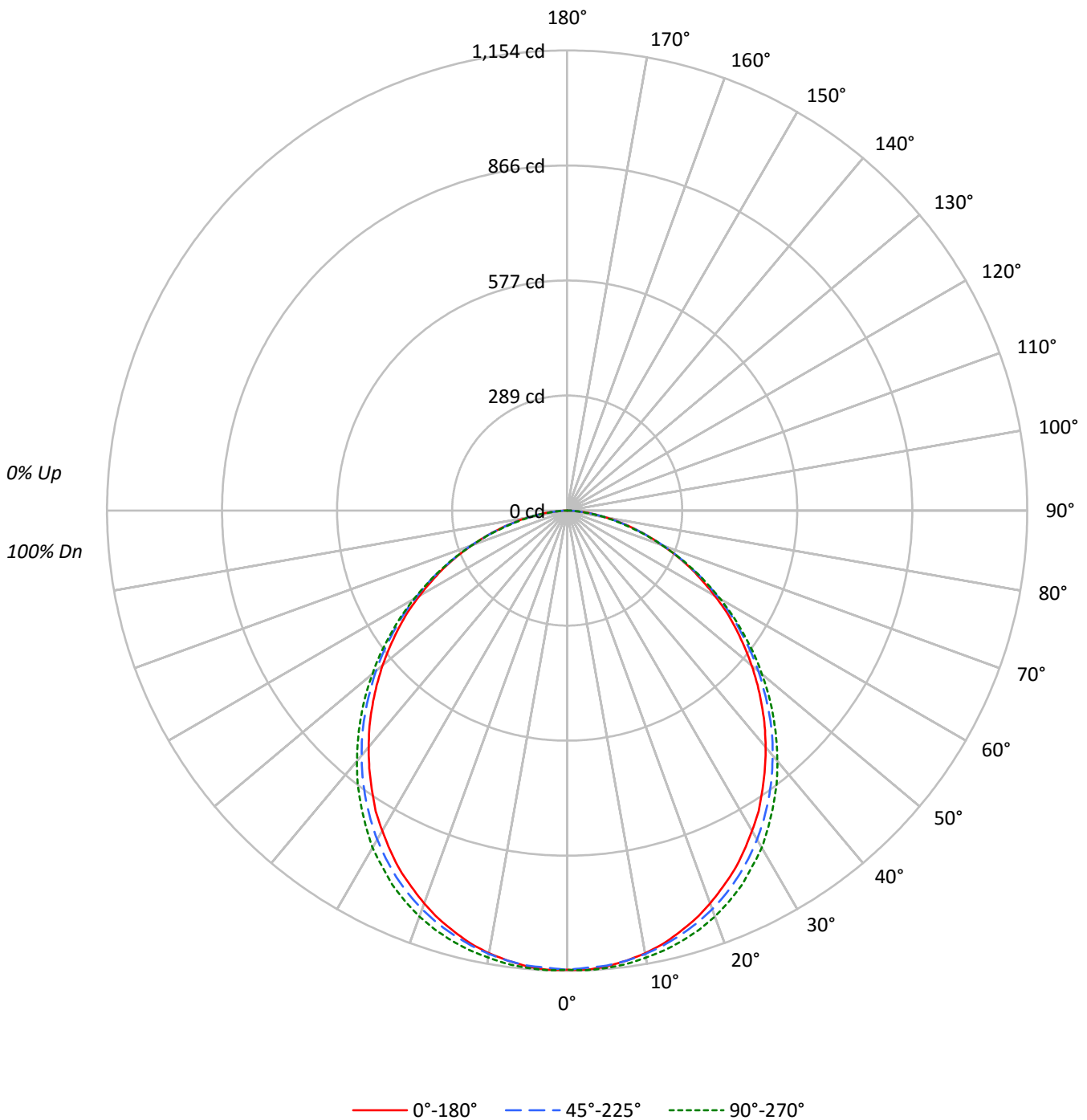
Input Watts (W): 21.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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°	1549	1549	1549
5°	1550	1547	1555
10°	1540	1543	1555
15°	1523	1534	1556
20°	1501	1523	1551
25°	1475	1505	1538
30°	1441	1480	1517
35°	1402	1448	1481
40°	1360	1408	1440
45°	1314	1363	1392
50°	1264	1311	1334
55°	1211	1249	1268
60°	1150	1180	1194
65°	1085	1101	1107
70°	995	1007	995
75°	896	891	865
80°	759	751	727
85°	567	551	488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	3.6
10°-20°	311.5	10.3
20°-30°	467.0	15.4
30°-40°	550.0	18.2
40°-50°	550.1	18.2
50°-60°	474.6	15.7
60°-70°	341.5	11.3
70°-80°	181.1	6.0
80°-90°	43.2	1.4
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°	887.5	29.3
0°-40°	1437.5	47.5
0°-60°	2462.1	81.3
0°-90°	3028.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3028.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1152	1152	1152	1152	1152	
5°	1148	1146	1146	1150	1152	109
15°	1094	1096	1102	1113	1117	308
25°	994	1000	1014	1031	1036	457
35°	854	864	881	897	902	534
45°	691	700	716	728	731	533
55°	516	521	532	542	541	462
65°	341	342	346	348	348	337
75°	172	170	171	167	166	183
85°	37	37	36	33	32	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1151.6	1151.6	1151.6	1151.6	1151.6
2.5°	1152.6	1150.6	1147.5	1151.6	1153.6
5°	1147.5	1146.5	1145.5	1149.6	1151.6
7.5°	1138.3	1139.4	1138.3	1144.5	1146.5
10°	1127.1	1128.1	1129.2	1136.3	1138.3
12.5°	1112.8	1113.9	1116.9	1126.1	1129.2
15°	1093.5	1096.5	1101.6	1112.8	1116.9
17.5°	1073.1	1077.1	1084.3	1097.5	1101.6
20°	1048.6	1053.7	1063.9	1078.2	1083.3
22.5°	1021.0	1026.1	1040.4	1055.7	1060.8
25°	993.5	999.6	1013.9	1031.2	1036.3
27.5°	960.9	969.0	984.3	1001.7	1005.7
30°	927.2	934.3	952.7	969.0	976.2
32.5°	893.5	900.7	918.0	934.3	939.4
35°	853.8	864.0	881.3	896.6	901.7
37.5°	815.0	824.2	842.5	857.8	862.9
40°	774.2	782.4	801.7	816.0	820.1
42.5°	733.4	741.6	760.9	772.2	776.2
45°	690.6	699.7	716.1	728.3	731.4
47.5°	647.7	654.9	670.2	681.4	685.5
50°	603.9	611.0	626.3	635.5	637.5
52.5°	560.0	565.1	579.4	587.5	590.6
55°	516.1	521.2	532.5	541.6	540.6
57.5°	474.3	476.4	487.6	493.7	493.7
60°	427.4	429.4	438.6	442.7	443.7
62.5°	383.5	386.6	393.7	394.7	394.7
65°	340.7	341.7	345.8	347.8	347.8
67.5°	297.8	296.8	300.9	300.9	299.9
70°	253.0	255.0	256.0	254.0	253.0
72.5°	212.2	211.1	211.1	210.1	210.1
75°	172.4	170.3	171.4	167.3	166.3
77.5°	135.7	132.6	131.6	129.5	127.5
80°	97.9	97.9	96.9	94.9	93.8
82.5°	65.3	65.3	64.3	62.2	60.2
85°	36.7	36.7	35.7	32.6	31.6
87.5°	12.2	12.2	12.2	12.2	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)