

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: P297320

Luminaire Tested: **D3X-WO-31L82765-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297320
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-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2927.0 lumens
Efficiency: N/A
Efficacy: 139.4 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

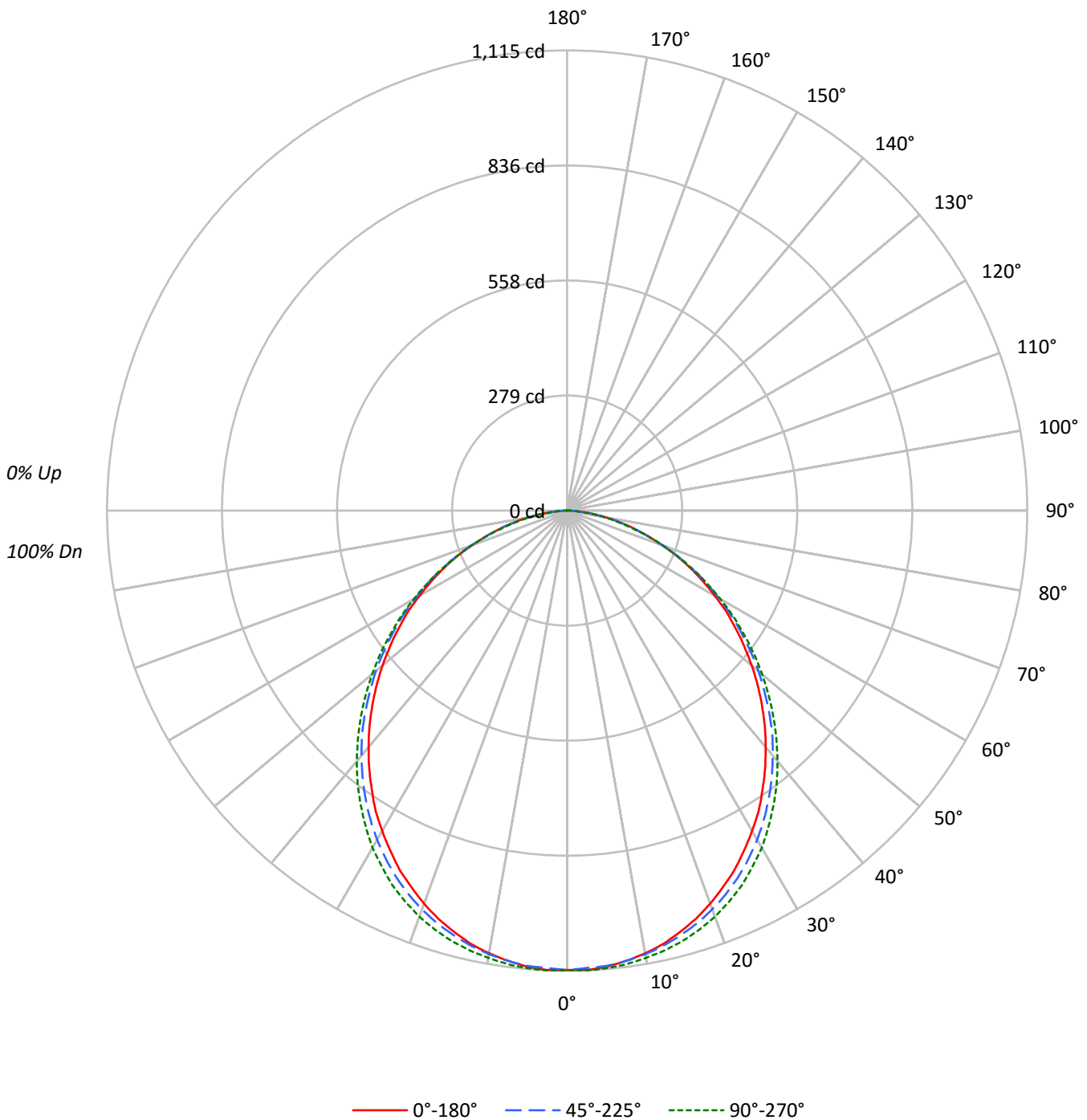
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1498	1498	1498
5°	1498	1496	1504
10°	1489	1491	1503
15°	1472	1483	1504
20°	1451	1473	1499
25°	1426	1455	1487
30°	1393	1431	1466
35°	1356	1399	1432
40°	1314	1361	1392
45°	1270	1317	1345
50°	1222	1267	1290
55°	1170	1207	1226
60°	1112	1141	1154
65°	1048	1064	1070
70°	962	974	962
75°	866	861	835
80°	734	726	703
85°	548	533	472



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	3.6
10°-20°	301.1	10.3
20°-30°	451.4	15.4
30°-40°	531.6	18.2
40°-50°	531.7	18.2
50°-60°	458.8	15.7
60°-70°	330.1	11.3
70°-80°	175.1	6.0
80°-90°	41.8	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°	857.9	29.3
0°-40°	1389.5	47.5
0°-60°	2380.0	81.3
0°-90°	2927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2927.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1113	1113	1113	1113	1113	
5°	1109	1108	1107	1111	1113	105
15°	1057	1060	1065	1076	1080	298
25°	960	966	980	997	1002	442
35°	825	835	852	867	872	516
45°	668	676	692	704	707	515
55°	499	504	515	524	523	446
65°	329	330	334	336	336	326
75°	167	165	166	162	161	177
85°	36	36	34	32	31	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1113.2	1113.2	1113.2	1113.2	1113.2
2.5°	1114.2	1112.2	1109.2	1113.2	1115.2
5°	1109.2	1108.3	1107.3	1111.2	1113.2
7.5°	1100.4	1101.4	1100.4	1106.3	1108.3
10°	1089.5	1090.5	1091.5	1098.4	1100.4
12.5°	1075.7	1076.7	1079.7	1088.5	1091.5
15°	1057.0	1059.9	1064.9	1075.7	1079.7
17.5°	1037.3	1041.2	1048.1	1060.9	1064.9
20°	1013.6	1018.5	1028.4	1042.2	1047.1
22.5°	987.0	991.9	1005.7	1020.5	1025.4
25°	960.4	966.3	980.1	996.8	1001.8
27.5°	928.8	936.7	951.5	968.3	972.2
30°	896.3	903.2	920.9	936.7	943.6
32.5°	863.7	870.6	887.4	903.2	908.1
35°	825.3	835.1	851.9	866.7	871.6
37.5°	787.8	796.7	814.4	829.2	834.2
40°	748.4	756.3	775.0	788.8	792.7
42.5°	708.9	716.8	735.6	746.4	750.3
45°	667.5	676.4	692.2	704.0	707.0
47.5°	626.1	633.0	647.8	658.6	662.6
50°	583.7	590.6	605.4	614.3	616.2
52.5°	541.3	546.2	560.0	567.9	570.9
55°	498.9	503.8	514.7	523.6	522.6
57.5°	458.5	460.5	471.3	477.2	477.2
60°	413.1	415.1	424.0	427.9	428.9
62.5°	370.7	373.7	380.6	381.6	381.6
65°	329.3	330.3	334.3	336.2	336.2
67.5°	287.9	286.9	290.9	290.9	289.9
70°	244.5	246.5	247.5	245.5	244.5
72.5°	205.1	204.1	204.1	203.1	203.1
75°	166.6	164.7	165.6	161.7	160.7
77.5°	131.1	128.2	127.2	125.2	123.2
80°	94.7	94.7	93.7	91.7	90.7
82.5°	63.1	63.1	62.1	60.1	58.2
85°	35.5	35.5	34.5	31.6	30.6
87.5°	11.8	11.8	11.8	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)