

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: P298353

Luminaire Tested: **D3X-WO-31L82765-LD5-UNV-22-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298353
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
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-22-T1-W2A-2700K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2886.0 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

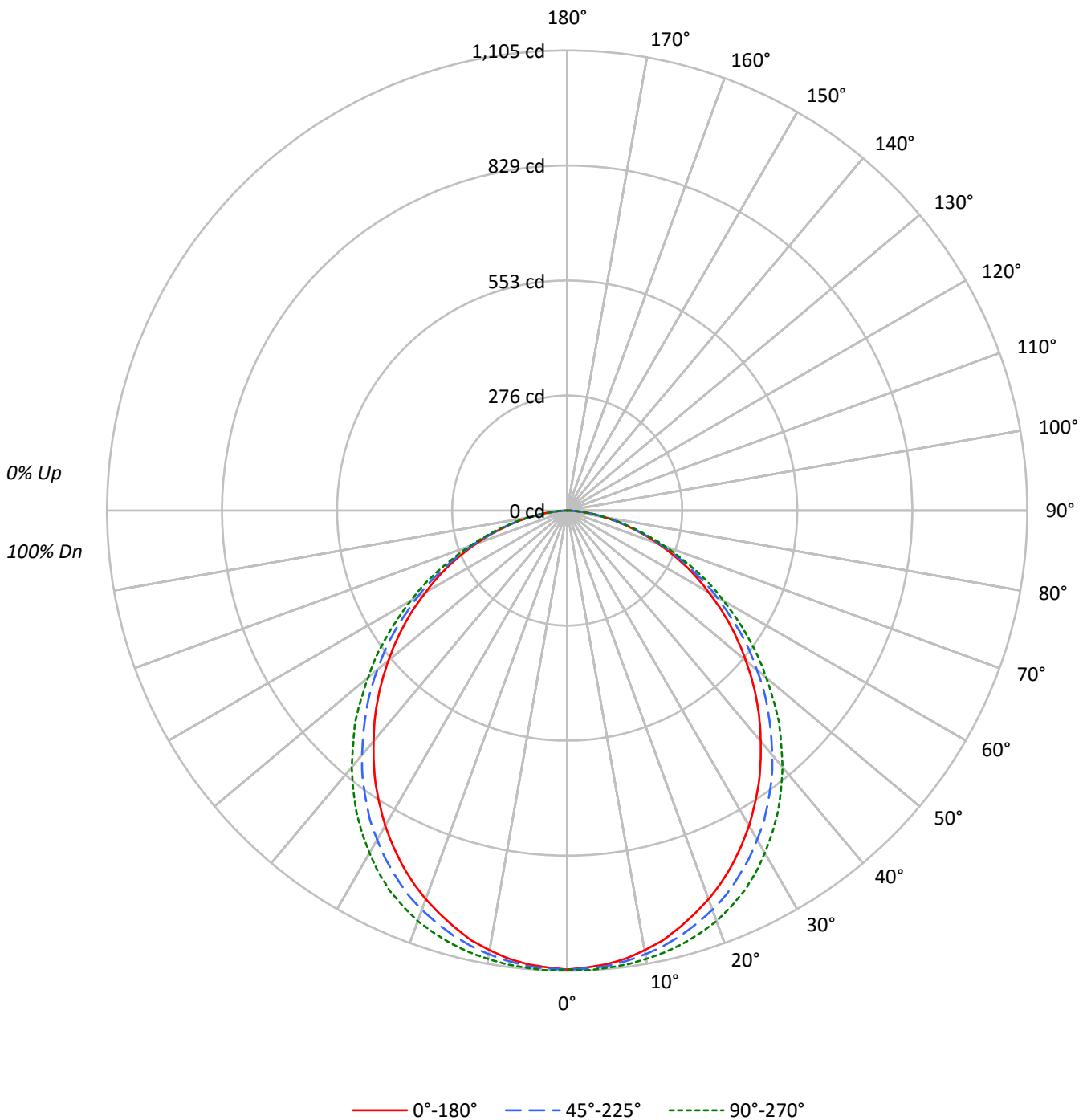
Input Watts (W): 24.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	84	72	63	57	81	70	62	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2966	2966	2966
5°	2954	2965	2977
10°	2929	2957	2988
15°	2890	2942	2998
20°	2843	2922	3004
25°	2786	2884	2991
30°	2715	2835	2951
35°	2634	2771	2898
40°	2539	2690	2827
45°	2450	2597	2740
50°	2346	2491	2611
55°	2238	2373	2487
60°	2111	2235	2336
65°	1995	2067	2169
70°	1832	1888	1956
75°	1628	1673	1718
80°	1402	1381	1381
85°	1065	976	886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.3	3.6
10°-20°	298.0	10.3
20°-30°	447.4	15.5
30°-40°	526.6	18.2
40°-50°	525.2	18.2
50°-60°	450.7	15.6
60°-70°	322.8	11.2
70°-80°	171.0	5.9
80°-90°	40.0	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°	849.7	29.4
0°-40°	1376.3	47.7
0°-60°	2352.3	81.5
0°-90°	2886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2886.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1094	1094	1098	1101	1102	104
15°	1038	1042	1056	1070	1076	292
25°	938	947	971	996	1007	432
35°	802	812	844	872	882	501
45°	644	654	682	707	720	496
55°	477	484	506	523	530	426
65°	313	315	325	338	341	309
75°	157	157	161	164	165	168
85°	34	33	32	29	29	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1102.1	1102.1	1102.1	1102.1	1102.1
2.5°	1097.8	1097.8	1100.7	1103.6	1105.0
5°	1093.5	1093.5	1097.8	1100.7	1102.1
7.5°	1084.9	1084.9	1090.6	1096.4	1099.3
10°	1072.0	1074.8	1082.0	1090.6	1093.5
12.5°	1057.6	1060.5	1070.5	1082.0	1086.3
15°	1037.5	1041.8	1056.2	1070.5	1076.3
17.5°	1015.9	1021.7	1038.9	1056.2	1063.3
20°	992.9	998.7	1020.2	1040.3	1049.0
22.5°	967.1	974.2	998.7	1020.2	1028.9
25°	938.3	946.9	971.4	995.8	1007.3
27.5°	906.7	916.8	944.1	969.9	980.0
30°	873.7	885.2	912.5	939.8	949.8
32.5°	837.7	847.8	880.8	906.7	916.8
35°	801.8	811.9	843.5	872.2	882.3
37.5°	763.0	776.0	807.6	833.4	843.5
40°	722.8	735.7	765.9	796.1	804.7
42.5°	684.0	695.5	724.2	751.5	760.1
45°	643.8	653.8	682.5	707.0	719.9
47.5°	602.1	612.1	640.9	663.9	671.1
50°	560.4	570.5	594.9	615.0	623.6
52.5°	518.7	528.8	551.8	570.5	579.1
55°	477.1	484.3	505.8	523.0	530.2
57.5°	435.4	441.1	458.4	477.1	481.4
60°	392.3	399.5	415.3	428.2	434.0
62.5°	353.5	356.4	370.7	382.2	389.4
65°	313.3	314.7	324.7	337.7	340.6
67.5°	271.6	273.0	283.1	290.3	293.1
70°	232.8	232.8	240.0	245.7	248.6
72.5°	195.4	194.0	198.3	204.0	206.9
75°	156.6	156.6	160.9	163.8	165.2
77.5°	123.6	120.7	123.6	126.5	126.5
80°	90.5	89.1	89.1	90.5	89.1
82.5°	61.8	60.4	61.8	58.9	57.5
85°	34.5	33.0	31.6	28.7	28.7
87.5°	11.5	10.1	10.1	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)