

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: P297876

Luminaire Tested: **D3X-WO-31L82765-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)
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-14-T1-W2A-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3169.0 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

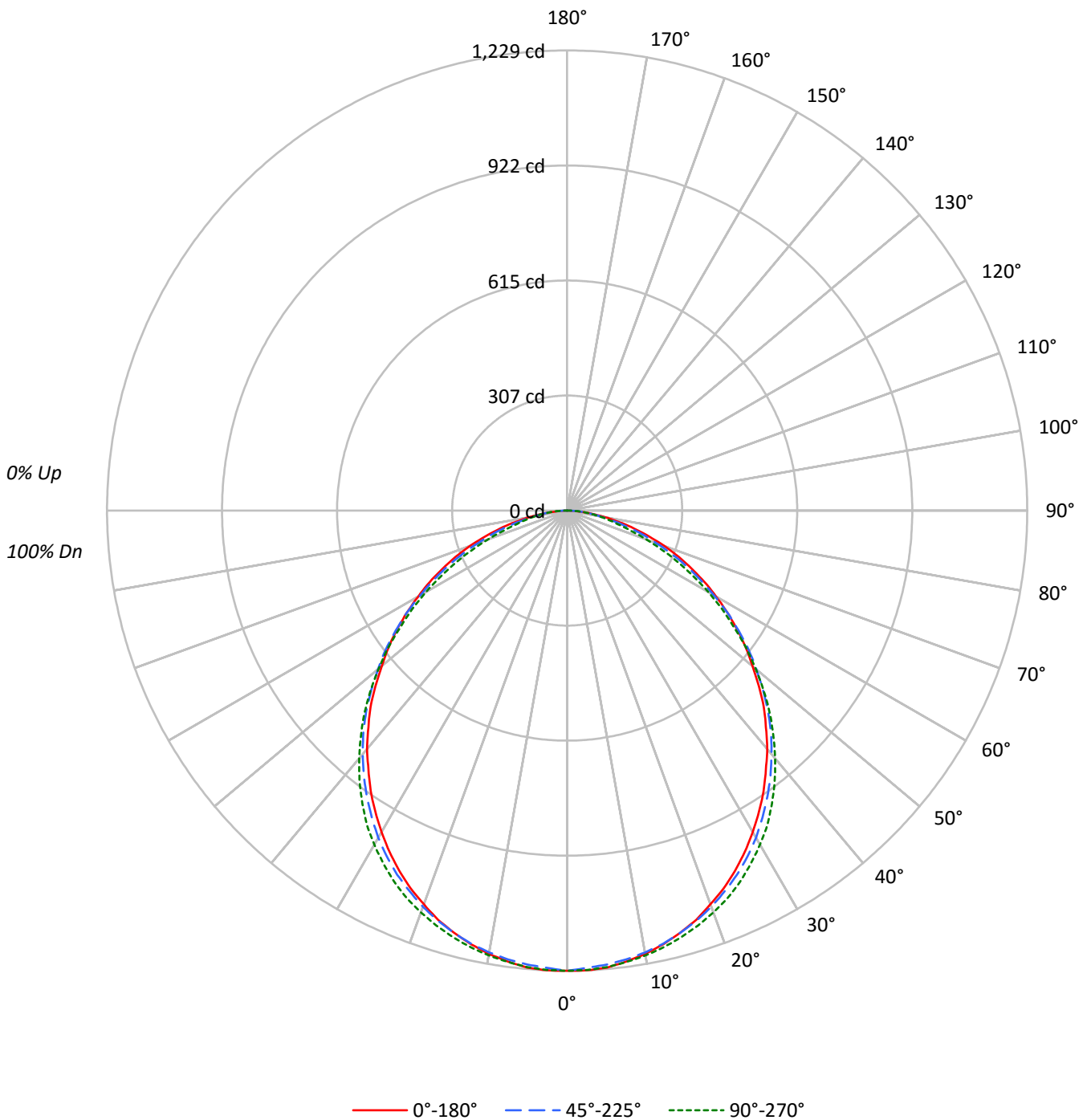
Input Watts (W): 28.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20				20			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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85	85	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72	72	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61	61	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52	52	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	48	45	45	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40	40	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35	35	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32	32	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29	29	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26	26	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3307	3307	3307
5°	3309	3288	3306
10°	3285	3274	3296
15°	3252	3252	3286
20°	3204	3224	3270
25°	3151	3187	3247
30°	3081	3135	3201
35°	3005	3063	3133
40°	2921	2982	3034
45°	2827	2888	2914
50°	2705	2761	2750
55°	2603	2622	2552
60°	2472	2436	2342
65°	2335	2241	2087
70°	2167	1987	1765
75°	1928	1704	1452
80°	1602	1395	1353
85°	1161	1244	1244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	3.7
10°-20°	330.4	10.4
20°-30°	495.2	15.6
30°-40°	583.5	18.4
40°-50°	582.0	18.4
50°-60°	495.0	15.6
60°-70°	345.5	10.9
70°-80°	175.6	5.5
80°-90°	45.9	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°	941.7	29.7
0°-40°	1525.1	48.1
0°-60°	2602.1	82.1
0°-90°	3169.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3169.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1229	1229	1229	1229	1229	
5°	1225	1222	1217	1224	1224	116
15°	1167	1167	1167	1178	1179	329
25°	1061	1063	1073	1089	1094	488
35°	915	916	932	951	954	572
45°	743	746	759	764	766	572
55°	555	555	559	551	544	496
65°	367	361	352	333	328	364
75°	185	179	164	144	140	197
85°	38	39	40	40	40	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1229.1	1229.1	1229.1	1229.1	1229.1
2.5°	1229.1	1227.8	1222.4	1227.8	1227.8
5°	1225.1	1222.4	1217.1	1223.8	1223.8
7.5°	1214.4	1213.0	1209.0	1215.7	1215.7
10°	1202.3	1200.9	1198.2	1206.3	1206.3
12.5°	1186.2	1186.2	1184.8	1192.9	1194.2
15°	1167.4	1167.4	1167.4	1178.1	1179.4
17.5°	1145.9	1144.5	1148.5	1160.6	1162.0
20°	1119.0	1120.3	1125.7	1139.1	1141.8
22.5°	1092.1	1093.5	1100.2	1116.3	1120.3
25°	1061.2	1062.6	1073.3	1089.4	1093.5
27.5°	1027.6	1030.3	1042.4	1059.9	1062.6
30°	991.4	994.1	1008.8	1026.3	1030.3
32.5°	953.8	957.8	971.2	990.0	995.4
35°	914.8	916.1	932.3	951.1	953.8
37.5°	871.8	875.8	892.0	908.1	910.8
40°	831.5	834.2	849.0	862.4	863.8
42.5°	785.8	789.9	806.0	815.4	815.4
45°	742.9	745.5	759.0	764.4	765.7
47.5°	694.5	697.2	709.3	712.0	712.0
50°	646.1	652.9	659.6	659.6	656.9
52.5°	601.8	603.2	611.2	605.8	603.2
55°	554.8	554.8	558.8	550.8	544.0
57.5°	507.8	507.8	507.8	497.0	491.7
60°	459.4	458.1	452.7	439.3	435.2
62.5°	413.7	409.7	401.7	388.2	380.2
65°	366.7	361.4	352.0	333.1	327.8
67.5°	322.4	313.0	302.2	284.8	275.4
70°	275.4	267.3	252.5	232.4	224.3
72.5°	229.7	221.6	209.6	189.4	177.3
75°	185.4	178.7	163.9	143.7	139.7
77.5°	142.4	138.4	123.6	114.2	112.8
80°	103.4	102.1	90.0	87.3	87.3
82.5°	68.5	67.2	63.1	63.1	61.8
85°	37.6	39.0	40.3	40.3	40.3
87.5°	13.4	16.1	18.8	18.8	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)