

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: P298355

Luminaire Tested: **D3X-WO-31L82765-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298355
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-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3072.0 lumens
Efficiency: N/A
Efficacy: 124.9 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

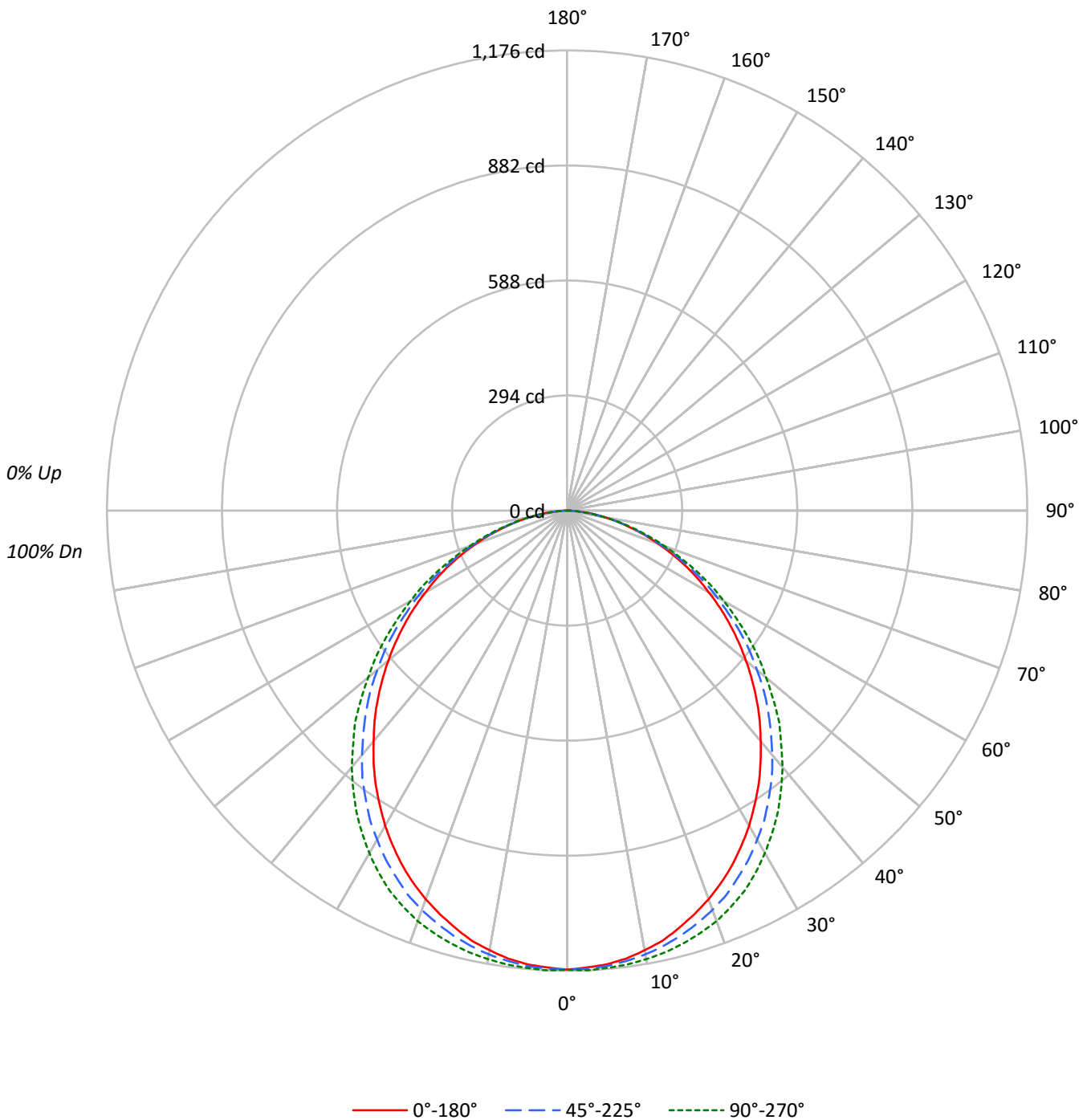
Input Watts (W): 24.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3157	3157	3157
5°	3144	3157	3169
10°	3118	3147	3181
15°	3076	3132	3192
20°	3027	3110	3198
25°	2966	3070	3184
30°	2890	3018	3141
35°	2804	2949	3085
40°	2703	2864	3009
45°	2608	2765	2916
50°	2497	2651	2779
55°	2382	2526	2648
60°	2248	2379	2486
65°	2123	2201	2308
70°	1950	2009	2082
75°	1733	1781	1829
80°	1494	1469	1469
85°	1133	1041	945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	3.6
10°-20°	317.2	10.3
20°-30°	476.3	15.5
30°-40°	560.5	18.2
40°-50°	559.1	18.2
50°-60°	479.8	15.6
60°-70°	343.6	11.2
70°-80°	182.0	5.9
80°-90°	42.6	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°	904.5	29.4
0°-40°	1465.0	47.7
0°-60°	2503.8	81.5
0°-90°	3072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3072.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1173	1173	1173	1173	1173	
5°	1164	1164	1169	1172	1173	110
15°	1104	1109	1124	1140	1146	311
25°	999	1008	1034	1060	1072	460
35°	854	864	898	928	939	533
45°	685	696	726	752	766	528
55°	508	516	538	557	564	454
65°	333	335	346	359	362	329
75°	167	167	171	174	176	179
85°	37	35	34	31	31	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1173.2	1173.2	1173.2	1173.2	1173.2
2.5°	1168.6	1168.6	1171.6	1174.7	1176.2
5°	1164.0	1164.0	1168.6	1171.6	1173.2
7.5°	1154.8	1154.8	1160.9	1167.1	1170.1
10°	1141.0	1144.1	1151.8	1160.9	1164.0
12.5°	1125.8	1128.8	1139.5	1151.8	1156.3
15°	1104.3	1108.9	1124.2	1139.5	1145.6
17.5°	1081.4	1087.5	1105.9	1124.2	1131.9
20°	1056.9	1063.0	1086.0	1107.4	1116.6
22.5°	1029.4	1037.0	1063.0	1086.0	1095.2
25°	998.8	1008.0	1034.0	1060.0	1072.2
27.5°	965.1	975.9	1004.9	1032.4	1043.2
30°	930.0	942.2	971.3	1000.3	1011.0
32.5°	891.7	902.4	937.6	965.1	975.9
35°	853.5	864.2	897.8	928.4	939.1
37.5°	812.2	826.0	859.6	887.1	897.8
40°	769.4	783.1	815.3	847.4	856.6
42.5°	728.1	740.3	770.9	800.0	809.1
45°	685.2	695.9	726.5	752.5	766.3
47.5°	640.9	651.6	682.2	706.7	714.3
50°	596.5	607.2	633.2	654.6	663.8
52.5°	552.2	562.9	587.3	607.2	616.4
55°	507.8	515.5	538.4	556.8	564.4
57.5°	463.5	469.6	487.9	507.8	512.4
60°	417.6	425.2	442.0	455.8	461.9
62.5°	376.3	379.3	394.6	406.9	414.5
65°	333.4	335.0	345.7	359.4	362.5
67.5°	289.1	290.6	301.3	309.0	312.0
70°	247.8	247.8	255.4	261.6	264.6
72.5°	208.0	206.5	211.1	217.2	220.3
75°	166.7	166.7	171.3	174.4	175.9
77.5°	131.5	128.5	131.5	134.6	134.6
80°	96.4	94.8	94.8	96.4	94.8
82.5°	65.8	64.2	65.8	62.7	61.2
85°	36.7	35.2	33.7	30.6	30.6
87.5°	12.2	10.7	10.7	12.2	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)