

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: P298272

Luminaire Tested: **D3X-WG-31L92765-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-31L92765-LD5-UNV-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2606.0 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

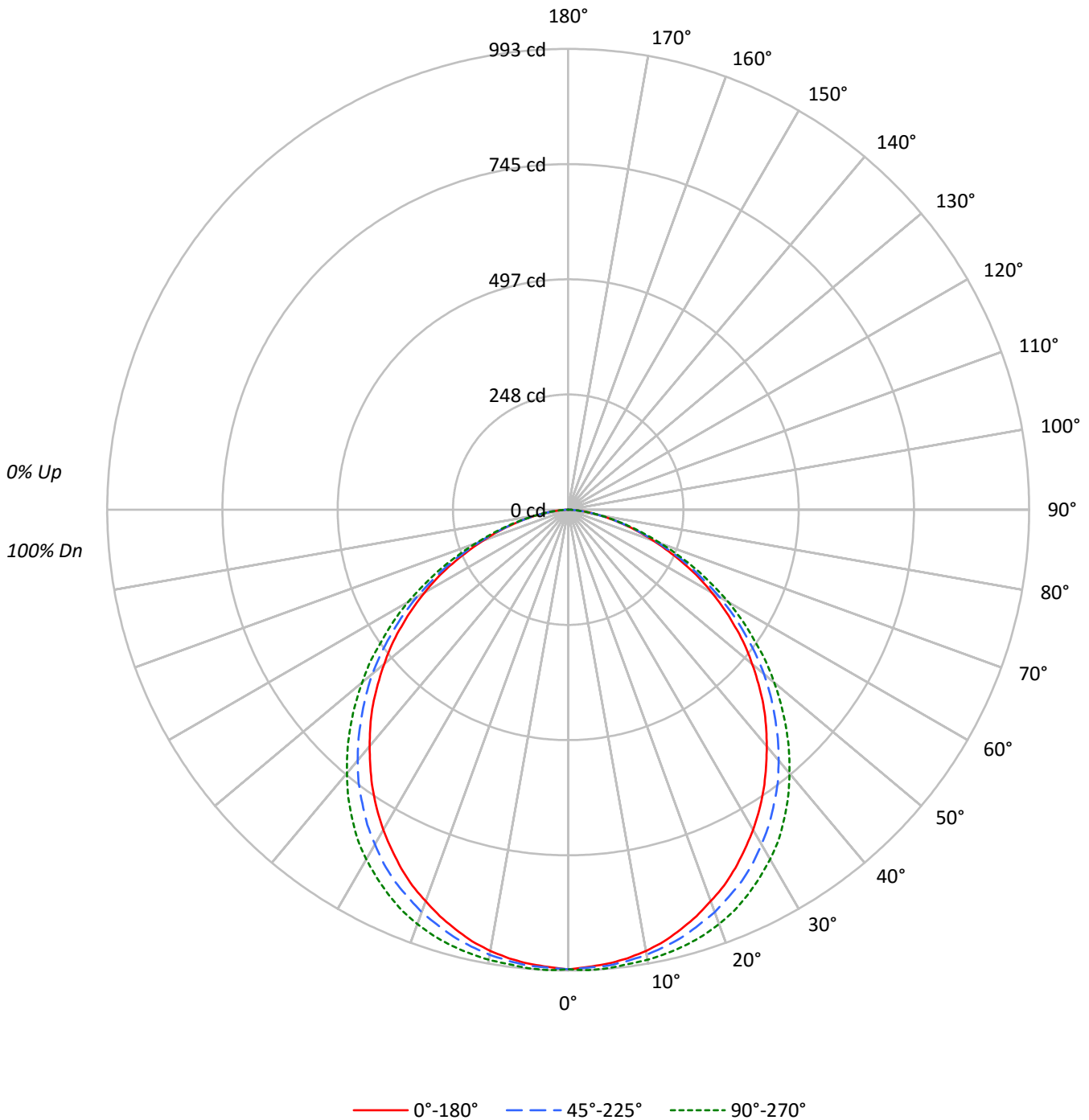
Input Watts (W): 24.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45					45			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32					32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28					28			
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2665	2665	2665
5°	2653	2664	2679
10°	2638	2661	2691
15°	2609	2655	2709
20°	2571	2642	2721
25°	2530	2624	2719
30°	2476	2587	2703
35°	2413	2540	2667
40°	2337	2478	2604
45°	2264	2395	2527
50°	2166	2305	2426
55°	2057	2174	2291
60°	1921	2025	2144
65°	1752	1832	1938
70°	1534	1600	1665
75°	1309	1337	1395
80°	1051	1072	1093
85°	769	726	682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	3.6
10°-20°	269.0	10.3
20°-30°	406.7	15.6
30°-40°	483.1	18.5
40°-50°	485.0	18.6
50°-60°	414.3	15.9
60°-70°	285.4	11.0
70°-80°	138.4	5.3
80°-90°	30.3	1.2
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°	769.5	29.5
0°-40°	1252.6	48.1
0°-60°	2151.9	82.6
0°-90°	2606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2606.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	990	990	990	990	990	
5°	982	982	986	989	992	93
15°	936	940	953	965	972	264
25°	852	859	884	907	916	392
35°	734	746	773	802	812	459
45°	595	603	629	656	664	458
55°	438	445	463	483	488	392
65°	275	275	288	300	304	273
75°	126	123	129	131	134	135
85°	25	25	24	22	22	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	990.3	990.3	990.3	990.3	990.3
2.5°	986.2	986.2	987.6	991.7	993.1
5°	982.0	982.0	986.2	989.0	991.7
7.5°	975.1	976.5	980.7	986.2	987.6
10°	965.4	966.8	973.7	980.7	984.8
12.5°	953.0	955.8	964.1	975.1	979.3
15°	936.4	940.5	953.0	965.4	972.4
17.5°	918.4	923.9	937.8	955.8	962.7
20°	897.7	904.6	922.6	941.9	950.2
22.5°	876.9	882.5	903.2	925.3	935.0
25°	852.0	858.9	883.8	907.4	915.6
27.5°	824.4	834.0	860.3	885.2	893.5
30°	796.7	805.0	832.7	860.3	870.0
32.5°	766.3	774.6	805.0	832.7	843.7
35°	734.5	745.5	773.2	802.2	811.9
37.5°	699.9	712.3	741.4	766.3	778.7
40°	665.3	676.4	705.4	731.7	741.4
42.5°	630.7	640.4	668.1	695.7	704.0
45°	594.8	603.1	629.3	655.6	663.9
47.5°	556.0	565.7	590.6	612.7	622.4
50°	517.3	527.0	550.5	571.2	579.5
52.5°	480.0	485.5	507.6	527.0	536.7
55°	438.5	445.4	463.4	482.7	488.3
57.5°	398.3	402.5	420.5	437.1	445.4
60°	356.9	359.6	376.2	388.7	398.3
62.5°	318.1	318.1	330.6	344.4	349.9
65°	275.2	275.2	287.7	300.1	304.3
67.5°	233.8	236.5	244.8	254.5	257.3
70°	195.0	195.0	203.3	210.2	211.6
72.5°	160.4	159.1	163.2	168.7	171.5
75°	125.9	123.1	128.6	131.4	134.2
77.5°	95.4	94.1	96.8	99.6	99.6
80°	67.8	66.4	69.2	69.2	70.5
82.5°	44.3	45.6	45.6	44.3	42.9
85°	24.9	24.9	23.5	22.1	22.1
87.5°	8.3	8.3	8.3	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)