

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: P298273

Luminaire Tested: **D3X-WG-31L92765-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298273
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-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2673.0 lumens
Efficiency: N/A
Efficacy: 107.3 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

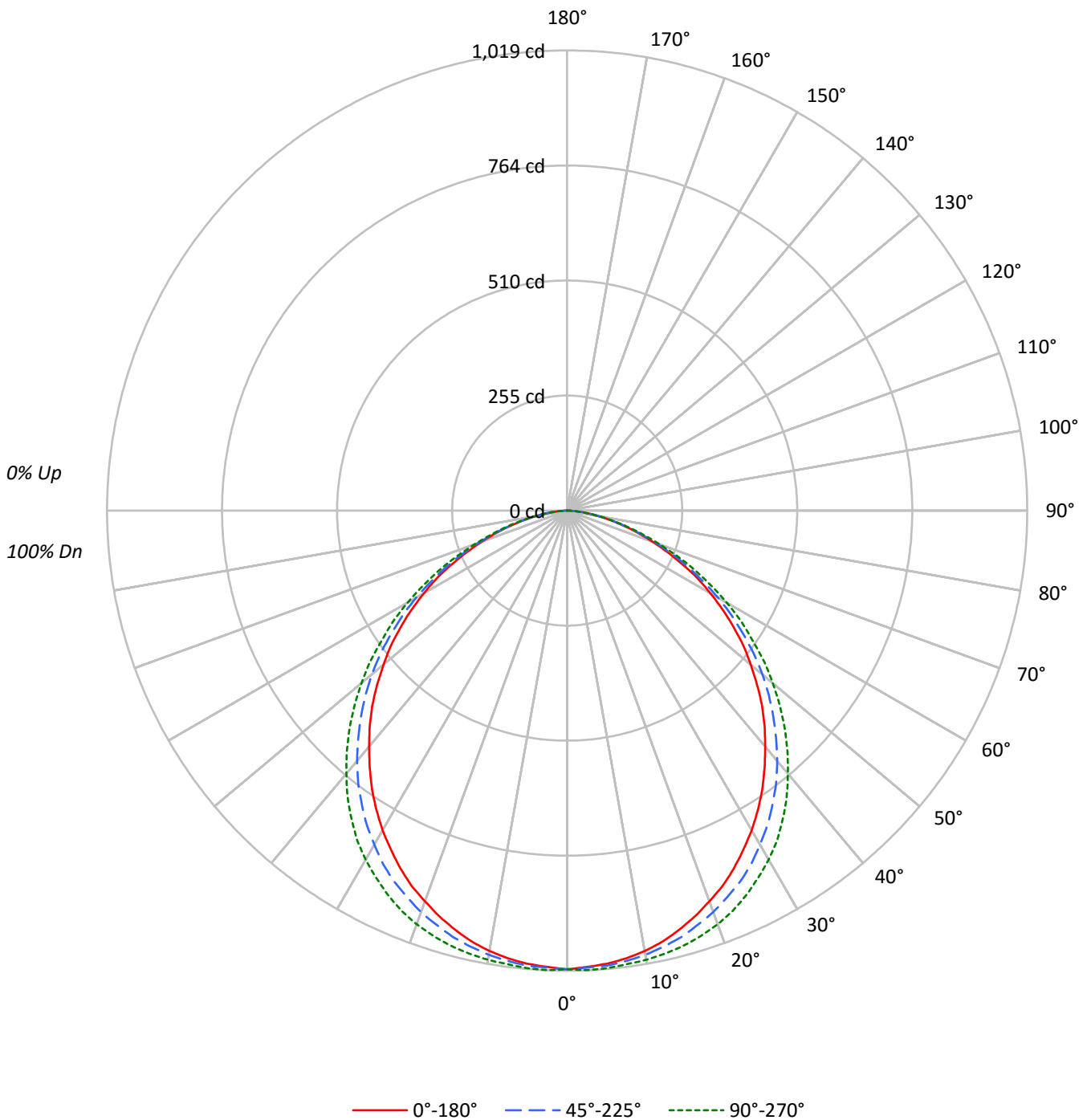
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2733	2733	2733
5°	2721	2732	2748
10°	2706	2729	2760
15°	2676	2723	2779
20°	2637	2710	2791
25°	2595	2692	2789
30°	2539	2654	2773
35°	2475	2605	2736
40°	2397	2542	2671
45°	2321	2457	2592
50°	2221	2364	2488
55°	2110	2230	2350
60°	1970	2077	2199
65°	1798	1879	1987
70°	1574	1641	1708
75°	1342	1371	1431
80°	1077	1099	1122
85°	787	744	701



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.2	3.6
10°-20°	276.0	10.3
20°-30°	417.2	15.6
30°-40°	495.5	18.5
40°-50°	497.5	18.6
50°-60°	424.9	15.9
60°-70°	292.8	11.0
70°-80°	142.0	5.3
80°-90°	31.0	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°	789.3	29.5
0°-40°	1284.8	48.1
0°-60°	2207.2	82.6
0°-90°	2673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	1007	1007	1012	1014	1017	96
15°	960	965	978	990	997	271
25°	874	881	907	931	939	402
35°	753	765	793	823	833	471
45°	610	619	646	672	681	470
55°	450	457	475	495	501	402
65°	282	282	295	308	312	280
75°	129	126	132	135	138	139
85°	26	26	24	23	23	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1015.8	1015.8	1015.8	1015.8	1015.8
2.5°	1011.5	1011.5	1013.0	1017.2	1018.6
5°	1007.3	1007.3	1011.5	1014.4	1017.2
7.5°	1000.2	1001.6	1005.9	1011.5	1013.0
10°	990.3	991.7	998.8	1005.9	1010.1
12.5°	977.5	980.3	988.8	1000.2	1004.5
15°	960.5	964.7	977.5	990.3	997.4
17.5°	942.0	947.7	961.9	980.3	987.4
20°	920.7	927.8	946.3	966.1	974.7
22.5°	899.5	905.1	926.4	949.1	959.1
25°	873.9	881.0	906.6	930.7	939.2
27.5°	845.6	855.5	882.4	908.0	916.5
30°	817.2	825.7	854.1	882.4	892.4
32.5°	786.0	794.5	825.7	854.1	865.4
35°	753.3	764.7	793.1	822.9	832.8
37.5°	717.9	730.6	760.4	786.0	798.7
40°	682.4	693.8	723.5	750.5	760.4
42.5°	646.9	656.9	685.2	713.6	722.1
45°	610.0	618.6	645.5	672.5	681.0
47.5°	570.3	580.3	605.8	628.5	638.4
50°	530.6	540.5	564.6	585.9	594.4
52.5°	492.3	498.0	520.7	540.5	550.5
55°	449.7	456.8	475.3	495.1	500.8
57.5°	408.6	412.8	431.3	448.3	456.8
60°	366.0	368.9	385.9	398.7	408.6
62.5°	326.3	326.3	339.1	353.3	358.9
65°	282.3	282.3	295.1	307.9	312.1
67.5°	239.8	242.6	251.1	261.0	263.9
70°	200.0	200.0	208.6	215.6	217.1
72.5°	164.6	163.2	167.4	173.1	175.9
75°	129.1	126.3	131.9	134.8	137.6
77.5°	97.9	96.5	99.3	102.1	102.1
80°	69.5	68.1	70.9	70.9	72.4
82.5°	45.4	46.8	46.8	45.4	44.0
85°	25.5	25.5	24.1	22.7	22.7
87.5°	8.5	8.5	8.5	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)