

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: P298180

Luminaire Tested: **D3X-WG-25L82765-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298180
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-25L82765-LD5-UNV-22-T1-W2A-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2349.0 lumens
Efficiency: N/A
Efficacy: 121.7 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

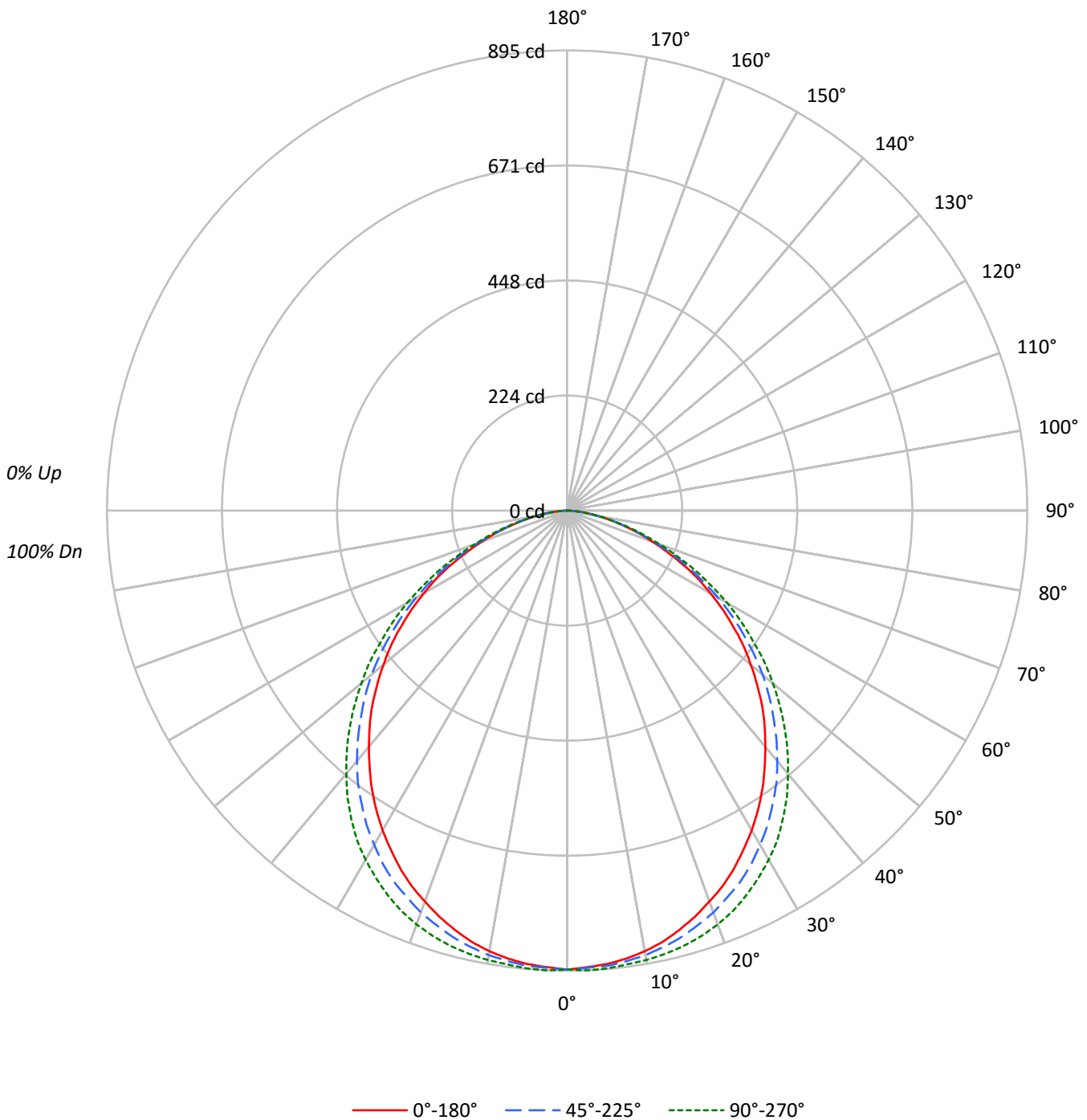
Input Watts (W): 19.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2402	2402	2402
5°	2391	2401	2415
10°	2378	2398	2426
15°	2352	2393	2442
20°	2317	2381	2453
25°	2280	2366	2450
30°	2231	2332	2437
35°	2175	2289	2404
40°	2107	2233	2348
45°	2040	2159	2277
50°	1952	2077	2187
55°	1854	1960	2065
60°	1731	1825	1933
65°	1580	1651	1747
70°	1383	1442	1501
75°	1180	1205	1257
80°	947	965	986
85°	692	655	614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	3.6
10°-20°	242.5	10.3
20°-30°	366.6	15.6
30°-40°	435.5	18.5
40°-50°	437.2	18.6
50°-60°	373.4	15.9
60°-70°	257.3	11.0
70°-80°	124.7	5.3
80°-90°	27.3	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°	693.6	29.5
0°-40°	1129.1	48.1
0°-60°	1939.7	82.6
0°-90°	2349.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2349.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	893	893	893	893	893	
5°	885	885	889	891	894	84
15°	844	848	859	870	876	238
25°	768	774	797	818	825	353
35°	662	672	697	723	732	414
45°	536	544	567	591	598	413
55°	395	402	418	435	440	353
65°	248	248	259	270	274	246
75°	114	111	116	118	121	122
85°	22	22	21	20	20	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	892.7	892.7	892.7	892.7	892.7
2.5°	888.9	888.9	890.2	893.9	895.2
5°	885.2	885.2	888.9	891.4	893.9
7.5°	879.0	880.2	883.9	888.9	890.2
10°	870.2	871.5	877.7	883.9	887.7
12.5°	859.0	861.5	869.0	879.0	882.7
15°	844.1	847.8	859.0	870.2	876.5
17.5°	827.8	832.8	845.3	861.5	867.7
20°	809.1	815.4	831.6	849.0	856.5
22.5°	790.4	795.4	814.1	834.1	842.8
25°	768.0	774.2	796.7	817.9	825.3
27.5°	743.1	751.8	775.5	797.9	805.4
30°	718.1	725.6	750.5	775.5	784.2
32.5°	690.7	698.2	725.6	750.5	760.5
35°	662.0	672.0	696.9	723.1	731.8
37.5°	630.9	642.1	668.3	690.7	701.9
40°	599.7	609.7	635.8	659.5	668.3
42.5°	568.5	577.2	602.2	627.1	634.6
45°	536.1	543.6	567.3	591.0	598.4
47.5°	501.2	509.9	532.4	552.3	561.0
50°	466.3	475.0	496.2	514.9	522.4
52.5°	432.6	437.6	457.6	475.0	483.7
55°	395.2	401.5	417.7	435.1	440.1
57.5°	359.1	362.8	379.0	394.0	401.5
60°	321.7	324.2	339.1	350.3	359.1
62.5°	286.8	286.8	298.0	310.4	315.4
65°	248.1	248.1	259.3	270.5	274.3
67.5°	210.7	213.2	220.7	229.4	231.9
70°	175.8	175.8	183.3	189.5	190.8
72.5°	144.6	143.4	147.1	152.1	154.6
75°	113.5	111.0	115.9	118.4	120.9
77.5°	86.0	84.8	87.3	89.8	89.8
80°	61.1	59.8	62.3	62.3	63.6
82.5°	39.9	41.1	41.1	39.9	38.6
85°	22.4	22.4	21.2	19.9	19.9
87.5°	7.5	7.5	7.5	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)