

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: P298017

Luminaire Tested: **D3X-WD-31L82765-LD5-UNV-22-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-31L82765-LD5-UNV-22-T1-W2A-2700K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2670.0 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

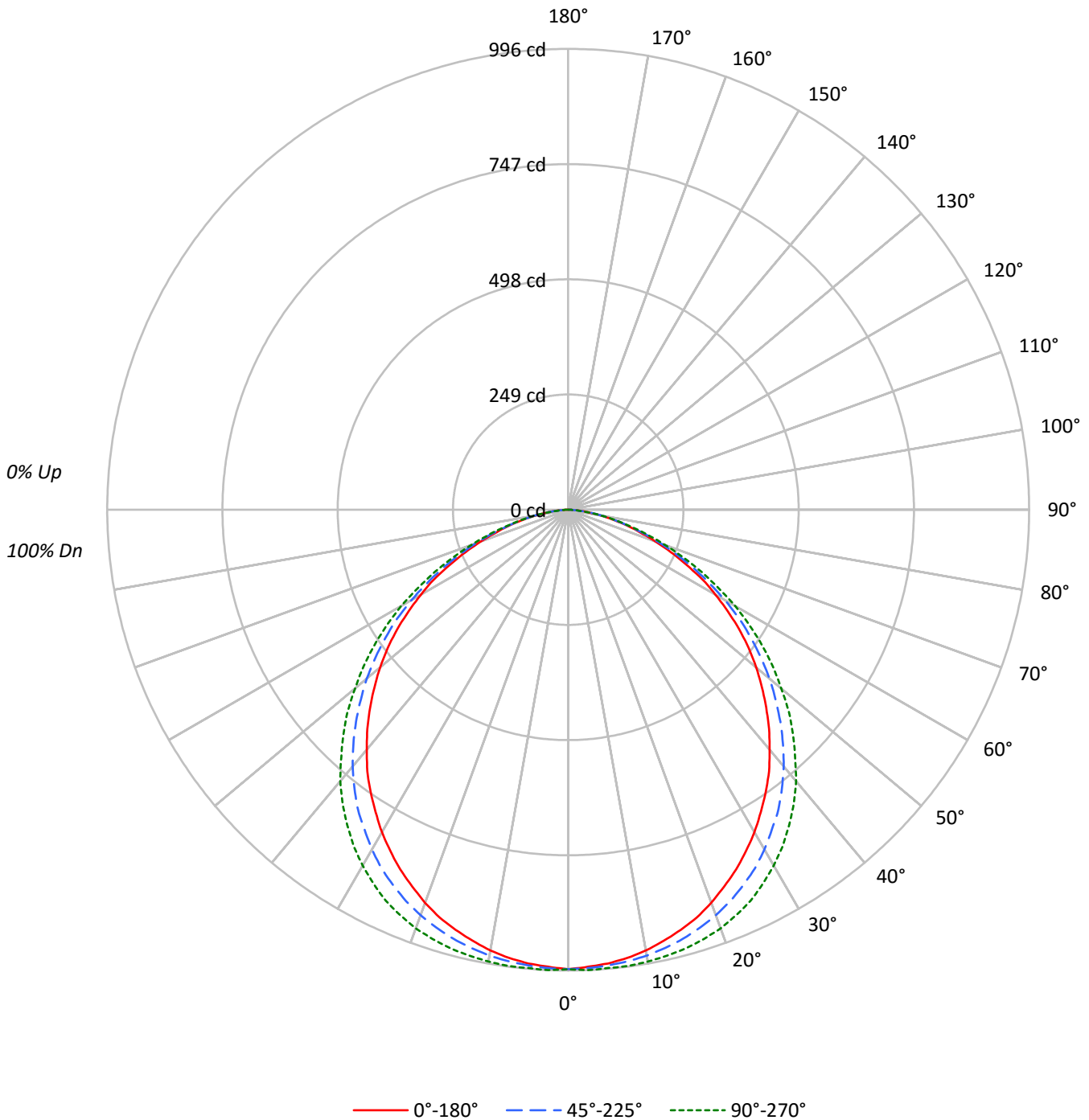
Input Watts (W): 24.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2672	2672	2672
5°	2659	2671	2686
10°	2643	2674	2710
15°	2618	2674	2735
20°	2589	2671	2757
25°	2548	2659	2769
30°	2501	2635	2760
35°	2446	2601	2734
40°	2378	2544	2691
45°	2302	2467	2614
50°	2220	2377	2515
55°	2117	2259	2400
60°	1980	2104	2243
65°	1794	1903	2022
70°	1583	1662	1753
75°	1360	1390	1449
80°	1091	1114	1136
85°	800	710	710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	3.5
10°-20°	271.1	10.2
20°-30°	412.3	15.4
30°-40°	493.3	18.5
40°-50°	498.7	18.7
50°-60°	429.2	16.1
60°-70°	296.3	11.1
70°-80°	143.7	5.4
80°-90°	31.2	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°	777.6	29.1
0°-40°	1270.9	47.6
0°-60°	2198.8	82.4
0°-90°	2670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2670.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	984	986	989	993	994	93
15°	940	946	960	974	982	265
25°	858	868	895	923	933	395
35°	744	757	792	821	832	465
45°	605	616	648	676	687	467
55°	451	458	482	503	512	402
65°	282	286	299	312	318	280
75°	131	128	134	138	139	139
85°	26	26	23	23	23	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	993.1	993.1	993.1	993.1	993.1
2.5°	988.8	988.8	991.6	994.5	996.0
5°	984.5	985.9	988.8	993.1	994.5
7.5°	977.3	978.7	984.5	991.6	994.5
10°	967.2	970.1	978.7	987.3	991.6
12.5°	954.3	960.0	970.1	981.6	987.3
15°	939.9	945.7	960.0	974.4	981.6
17.5°	924.1	929.8	947.1	965.8	973.0
20°	904.0	912.6	932.7	954.3	962.9
22.5°	881.0	892.5	915.5	938.5	948.5
25°	858.0	868.0	895.4	922.7	932.7
27.5°	832.1	843.6	873.8	901.1	911.2
30°	804.8	816.3	847.9	878.1	888.2
32.5°	774.6	789.0	819.2	850.8	862.3
35°	744.5	757.4	791.9	820.6	832.1
37.5°	712.8	724.3	758.8	789.0	800.5
40°	676.9	689.8	724.3	754.5	766.0
42.5°	642.4	655.3	687.0	715.7	725.8
45°	605.0	616.5	648.2	675.5	687.0
47.5°	567.7	580.6	607.9	635.2	646.7
50°	530.3	540.4	567.7	593.6	600.7
52.5°	491.5	500.1	524.6	547.6	557.6
55°	451.3	458.5	481.5	503.0	511.6
57.5°	408.2	416.8	438.3	454.1	464.2
60°	367.9	372.2	390.9	406.7	416.8
62.5°	327.7	329.1	343.5	359.3	365.0
65°	281.7	286.0	298.9	311.9	317.6
67.5°	240.0	244.3	254.4	264.4	268.8
70°	201.2	201.2	211.3	218.4	222.8
72.5°	162.4	163.8	171.0	175.3	179.6
75°	130.8	127.9	133.7	138.0	139.4
77.5°	97.7	96.3	100.6	102.0	104.9
80°	70.4	70.4	71.9	73.3	73.3
82.5°	46.0	46.0	47.4	44.6	43.1
85°	25.9	25.9	23.0	23.0	23.0
87.5°	8.6	8.6	8.6	10.1	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)