

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: P298018

Luminaire Tested: **D3X-WD-31L82765-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298018
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-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2747.0 lumens
Efficiency: N/A
Efficacy: 113.0 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

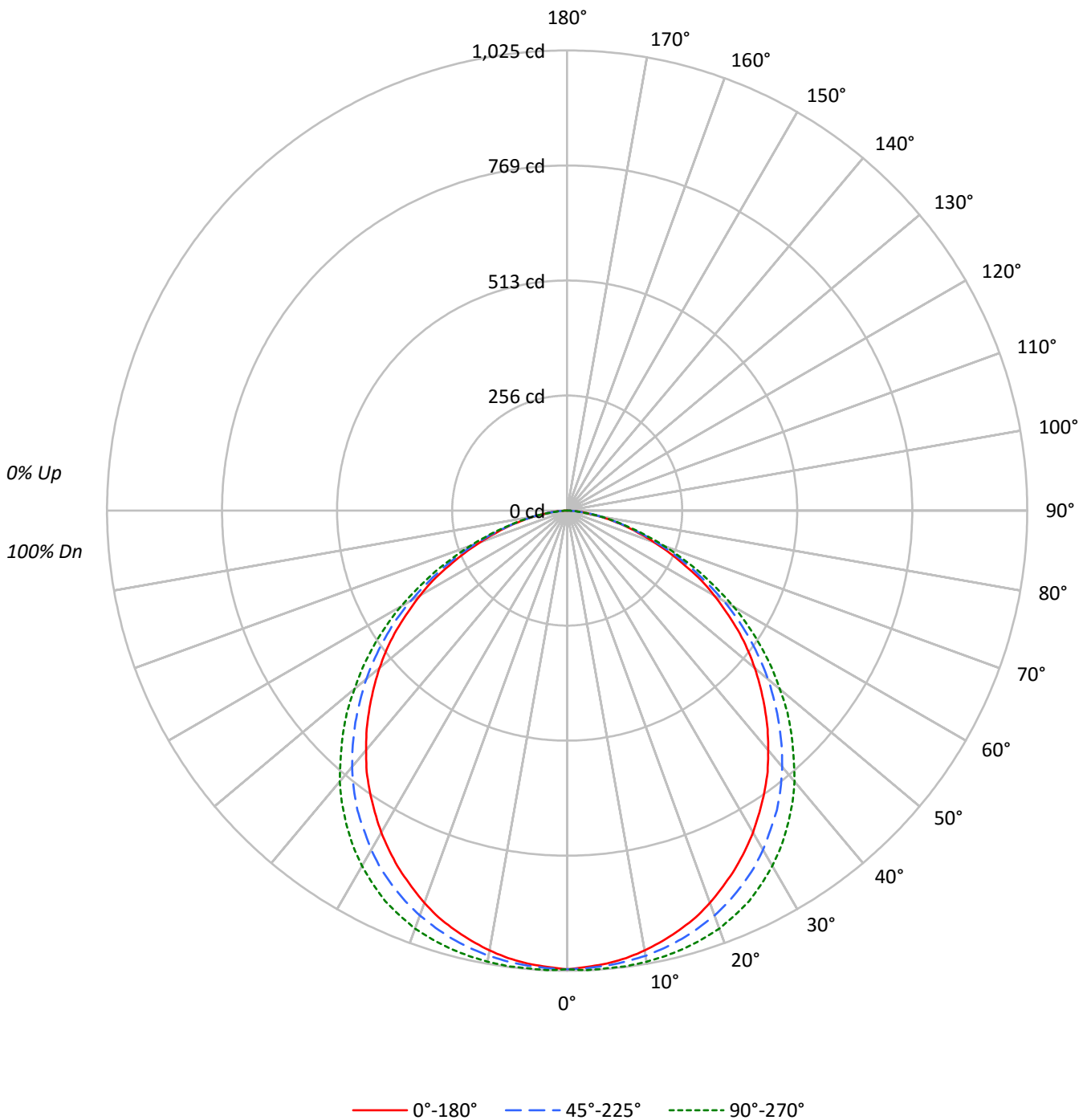
Input Watts (W): 24.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2749	2749	2749
5°	2736	2748	2764
10°	2719	2751	2788
15°	2694	2752	2813
20°	2663	2748	2837
25°	2621	2735	2849
30°	2573	2711	2839
35°	2516	2676	2812
40°	2446	2618	2768
45°	2369	2538	2690
50°	2284	2445	2588
55°	2178	2324	2470
60°	2037	2165	2308
65°	1845	1959	2081
70°	1629	1710	1803
75°	1399	1430	1491
80°	1124	1145	1168
85°	821	732	732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	3.5
10°-20°	278.9	10.2
20°-30°	424.2	15.4
30°-40°	507.6	18.5
40°-50°	513.1	18.7
50°-60°	441.6	16.1
60°-70°	304.9	11.1
70°-80°	147.8	5.4
80°-90°	32.1	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°	800.0	29.1
0°-40°	1307.5	47.6
0°-60°	2262.2	82.4
0°-90°	2747.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2747.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1013	1014	1017	1022	1023	96
15°	967	973	988	1002	1010	273
25°	883	893	921	949	960	406
35°	766	779	815	844	856	479
45°	622	634	667	695	707	480
55°	464	472	495	518	526	414
65°	290	294	308	321	327	288
75°	135	132	138	142	143	143
85°	27	27	24	24	24	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1021.7	1021.7	1021.7	1021.7	1021.7
2.5°	1017.3	1017.3	1020.2	1023.2	1024.7
5°	1012.9	1014.3	1017.3	1021.7	1023.2
7.5°	1005.5	1006.9	1012.9	1020.2	1023.2
10°	995.1	998.1	1006.9	1015.8	1020.2
12.5°	981.8	987.7	998.1	1009.9	1015.8
15°	967.0	972.9	987.7	1002.5	1009.9
17.5°	950.7	956.7	974.4	993.6	1001.0
20°	930.0	938.9	959.6	981.8	990.7
22.5°	906.4	918.2	941.9	965.5	975.9
25°	882.7	893.1	921.2	949.3	959.6
27.5°	856.1	867.9	899.0	927.1	937.4
30°	828.0	839.9	872.4	903.4	913.8
32.5°	797.0	811.8	842.8	875.3	887.2
35°	765.9	779.2	814.7	844.3	856.1
37.5°	733.4	745.2	780.7	811.8	823.6
40°	696.4	709.7	745.2	776.3	788.1
42.5°	660.9	674.2	706.8	736.3	746.7
45°	622.5	634.3	666.9	694.9	706.8
47.5°	584.1	597.4	625.5	653.5	665.4
50°	545.6	556.0	584.1	610.7	618.1
52.5°	505.7	514.6	539.7	563.4	573.7
55°	464.3	471.7	495.3	517.5	526.4
57.5°	419.9	428.8	451.0	467.2	477.6
60°	378.5	383.0	402.2	418.4	428.8
62.5°	337.1	338.6	353.4	369.7	375.6
65°	289.8	294.2	307.6	320.9	326.8
67.5°	246.9	251.4	261.7	272.1	276.5
70°	207.0	207.0	217.4	224.7	229.2
72.5°	167.1	168.6	176.0	180.4	184.8
75°	134.6	131.6	137.5	141.9	143.4
77.5°	100.5	99.1	103.5	105.0	107.9
80°	72.5	72.5	73.9	75.4	75.4
82.5°	47.3	47.3	48.8	45.8	44.4
85°	26.6	26.6	23.7	23.7	23.7
87.5°	8.9	8.9	8.9	10.4	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)