

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: P297185

Luminaire Tested: **D3X-WG-31L92765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297185  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)  
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-24-T1-W2A-5500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2736.0 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

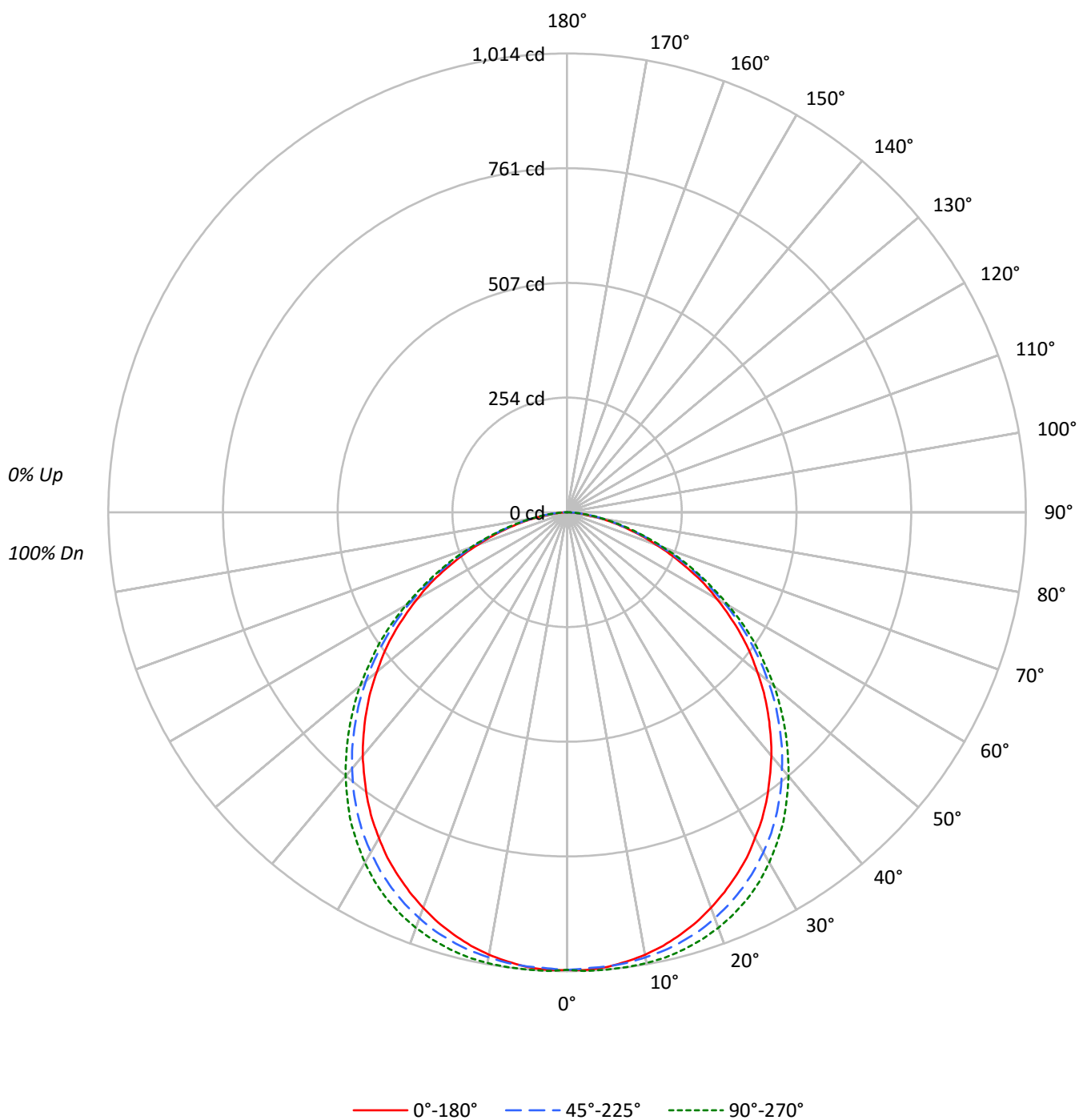
Input Watts (W): 21.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
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	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	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	47	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	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	26		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1361	1361	1361
5°	1362	1361	1370
10°	1356	1364	1382
15°	1346	1368	1393
20°	1332	1367	1399
25°	1314	1360	1400
30°	1291	1348	1389
35°	1265	1328	1370
40°	1234	1298	1338
45°	1195	1261	1298
50°	1149	1214	1251
55°	1099	1154	1191
60°	1028	1081	1108
65°	939	989	1014
70°	825	867	891
75°	698	734	759
80°	554	607	623
85°	378	454	438



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.1	3.5
10°-20°	277.5	10.1
20°-30°	421.7	15.4
30°-40°	503.1	18.4
40°-50°	508.1	18.6
50°-60°	437.8	16.0
60°-70°	305.2	11.2
70°-80°	151.3	5.5
80°-90°	35.3	1.3
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°	795.2	29.1
0°-40°	1298.3	47.5
0°-60°	2244.3	82.0
0°-90°	2736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2736.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1011	1011	1011	1011	1011	
5°	1008	1008	1008	1012	1014	96
15°	966	971	982	995	1000	273
25°	885	897	916	935	943	408
35°	770	783	809	827	834	481
45°	628	642	662	678	682	484
55°	468	478	492	504	508	418
65°	295	301	311	314	318	293
75°	134	136	141	144	146	145
85°	24	29	29	27	28	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1011.4	1011.4	1011.4	1011.4	1011.4
2.5°	1012.4	1010.5	1008.5	1012.4	1014.4
5°	1008.5	1007.5	1007.5	1012.4	1014.4
7.5°	1001.6	1001.6	1004.6	1011.4	1013.4
10°	992.8	994.8	998.7	1008.5	1011.4
12.5°	981.1	985.0	991.8	1003.6	1007.5
15°	966.4	971.3	982.0	994.8	999.7
17.5°	949.7	956.6	970.3	985.0	989.9
20°	930.1	938.9	954.6	971.3	977.1
22.5°	908.5	919.3	937.0	954.6	961.5
25°	885.0	896.8	916.4	935.0	942.8
27.5°	860.5	872.3	893.8	912.5	920.3
30°	831.1	844.8	867.4	887.0	893.8
32.5°	802.7	816.4	839.9	857.6	864.4
35°	770.3	783.1	808.6	827.2	834.0
37.5°	736.0	750.7	775.2	791.9	797.8
40°	702.7	715.5	739.0	755.6	761.5
42.5°	665.5	679.2	702.7	717.4	722.3
45°	628.2	642.0	662.5	678.2	682.1
47.5°	590.0	602.7	623.3	636.1	640.0
50°	548.8	560.6	580.2	592.9	597.8
52.5°	509.6	520.4	537.1	547.9	550.8
55°	468.5	478.3	492.0	503.8	507.7
57.5°	424.4	435.2	447.9	457.7	460.6
60°	382.2	391.1	401.8	410.7	411.6
62.5°	341.1	345.0	354.8	362.6	363.6
65°	295.0	300.9	310.7	313.6	318.5
67.5°	252.9	256.8	264.6	268.5	272.5
70°	209.7	212.7	220.5	225.4	226.4
72.5°	172.5	173.5	179.4	183.3	184.3
75°	134.3	136.2	141.1	144.1	146.0
77.5°	101.9	103.9	107.8	109.8	109.8
80°	71.5	74.5	78.4	79.4	80.4
82.5°	46.1	50.0	52.9	53.9	51.9
85°	24.5	29.4	29.4	27.4	28.4
87.5°	8.8	10.8	11.8	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)