

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: P297041

Luminaire Tested: **D3X-WG-31L82765-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297041  
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-31L82765-LD5-UNV-24-T1-W2A-3500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2847.0 lumens  
Efficiency: N/A  
Efficacy: 133.7 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

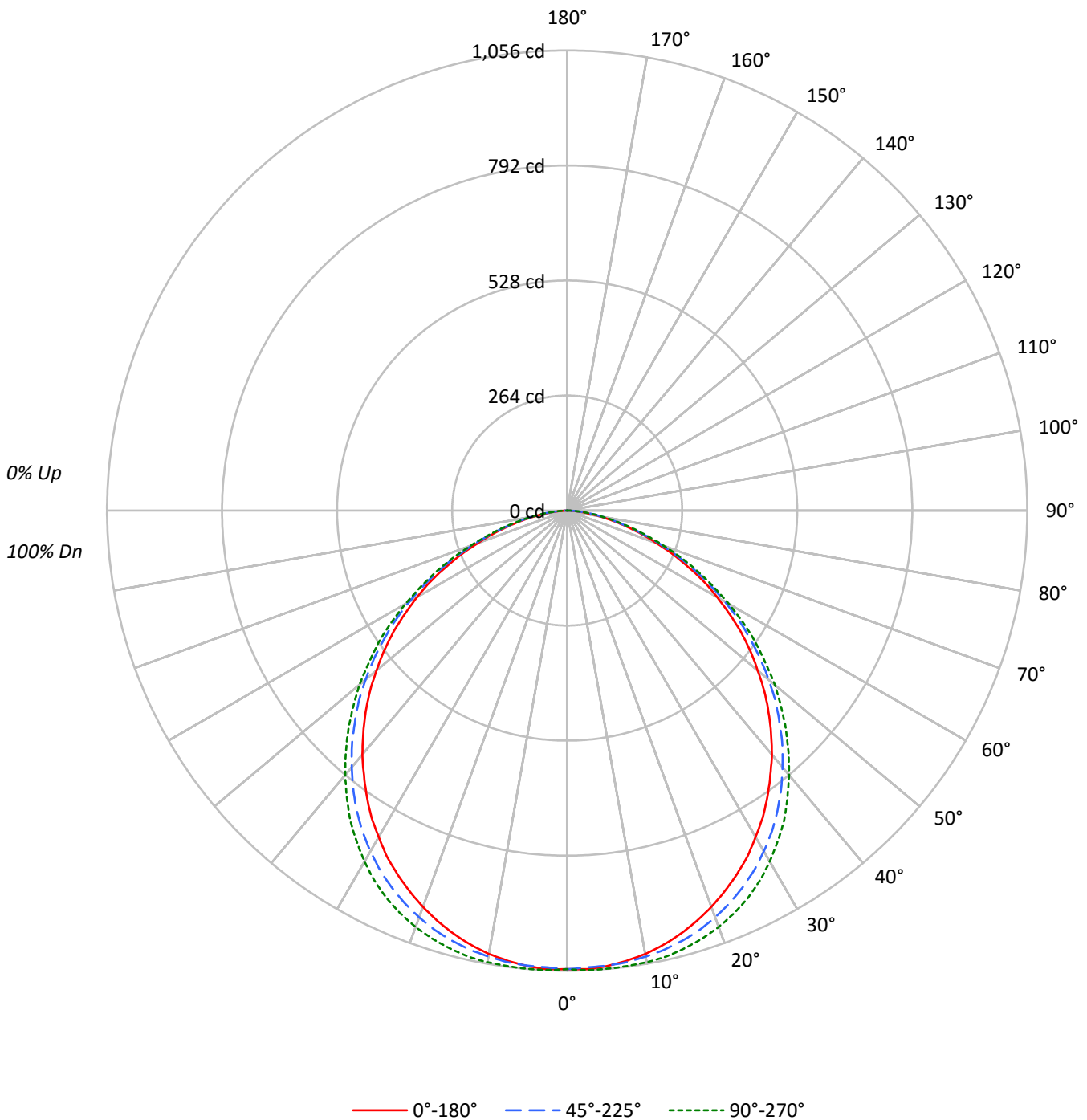
Input Watts (W): 21.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	1416	1416	1416
5°	1417	1416	1426
10°	1411	1420	1438
15°	1401	1423	1449
20°	1386	1422	1456
25°	1367	1416	1457
30°	1344	1402	1445
35°	1317	1382	1426
40°	1284	1351	1392
45°	1244	1312	1351
50°	1195	1264	1302
55°	1144	1201	1239
60°	1070	1125	1153
65°	977	1029	1055
70°	858	903	927
75°	726	764	790
80°	576	632	648
85°	394	472	457



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.0	3.5
10°-20°	288.7	10.1
20°-30°	438.8	15.4
30°-40°	523.5	18.4
40°-50°	528.8	18.6
50°-60°	455.6	16.0
60°-70°	317.6	11.2
70°-80°	157.4	5.5
80°-90°	36.7	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°	827.5	29.1
0°-40°	1351.0	47.5
0°-60°	2335.3	82.0
0°-90°	2847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2847.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1052	1052	1052	1052	1052	
5°	1049	1048	1048	1054	1056	100
15°	1006	1011	1022	1035	1040	284
25°	921	933	954	973	981	424
35°	802	815	841	861	868	501
45°	654	668	689	706	710	504
55°	488	498	512	524	528	434
65°	307	313	323	326	331	305
75°	140	142	147	150	152	151
85°	26	31	31	29	30	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1052.5	1052.5	1052.5	1052.5	1052.5
2.5°	1053.5	1051.5	1049.4	1053.5	1055.5
5°	1049.4	1048.4	1048.4	1053.5	1055.5
7.5°	1042.3	1042.3	1045.3	1052.5	1054.5
10°	1033.1	1035.1	1039.2	1049.4	1052.5
12.5°	1020.9	1024.9	1032.1	1044.3	1048.4
15°	1005.6	1010.7	1021.9	1035.1	1040.2
17.5°	988.2	995.4	1009.6	1024.9	1030.0
20°	967.8	977.0	993.3	1010.7	1016.8
22.5°	945.4	956.6	975.0	993.3	1000.5
25°	920.9	933.2	953.6	972.9	981.1
27.5°	895.4	907.7	930.1	949.5	957.6
30°	864.8	879.1	902.6	923.0	930.1
32.5°	835.2	849.5	874.0	892.4	899.5
35°	801.6	814.9	841.4	860.7	867.9
37.5°	765.9	781.2	806.7	824.0	830.2
40°	731.2	744.5	769.0	786.3	792.4
42.5°	692.5	706.7	731.2	746.5	751.6
45°	653.7	668.0	689.4	705.7	709.8
47.5°	613.9	627.2	648.6	661.9	666.0
50°	571.1	583.3	603.7	617.0	622.1
52.5°	530.3	541.5	558.9	570.1	573.2
55°	487.5	497.7	512.0	524.2	528.3
57.5°	441.6	452.8	466.1	476.3	479.3
60°	397.7	406.9	418.1	427.3	428.3
62.5°	354.9	359.0	369.2	377.3	378.4
65°	307.0	313.1	323.3	326.3	331.4
67.5°	263.1	267.2	275.4	279.4	283.5
70°	218.2	221.3	229.5	234.6	235.6
72.5°	179.5	180.5	186.6	190.7	191.7
75°	139.7	141.8	146.9	149.9	152.0
77.5°	106.1	108.1	112.2	114.2	114.2
80°	74.4	77.5	81.6	82.6	83.6
82.5°	47.9	52.0	55.1	56.1	54.1
85°	25.5	30.6	30.6	28.6	29.6
87.5°	9.2	11.2	12.2	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)