

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: P297409

Luminaire Tested: **D3X-WO-31L93050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297409  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-31L93050-LD5-UNV-24-T1-W2A-3000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2412.0 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

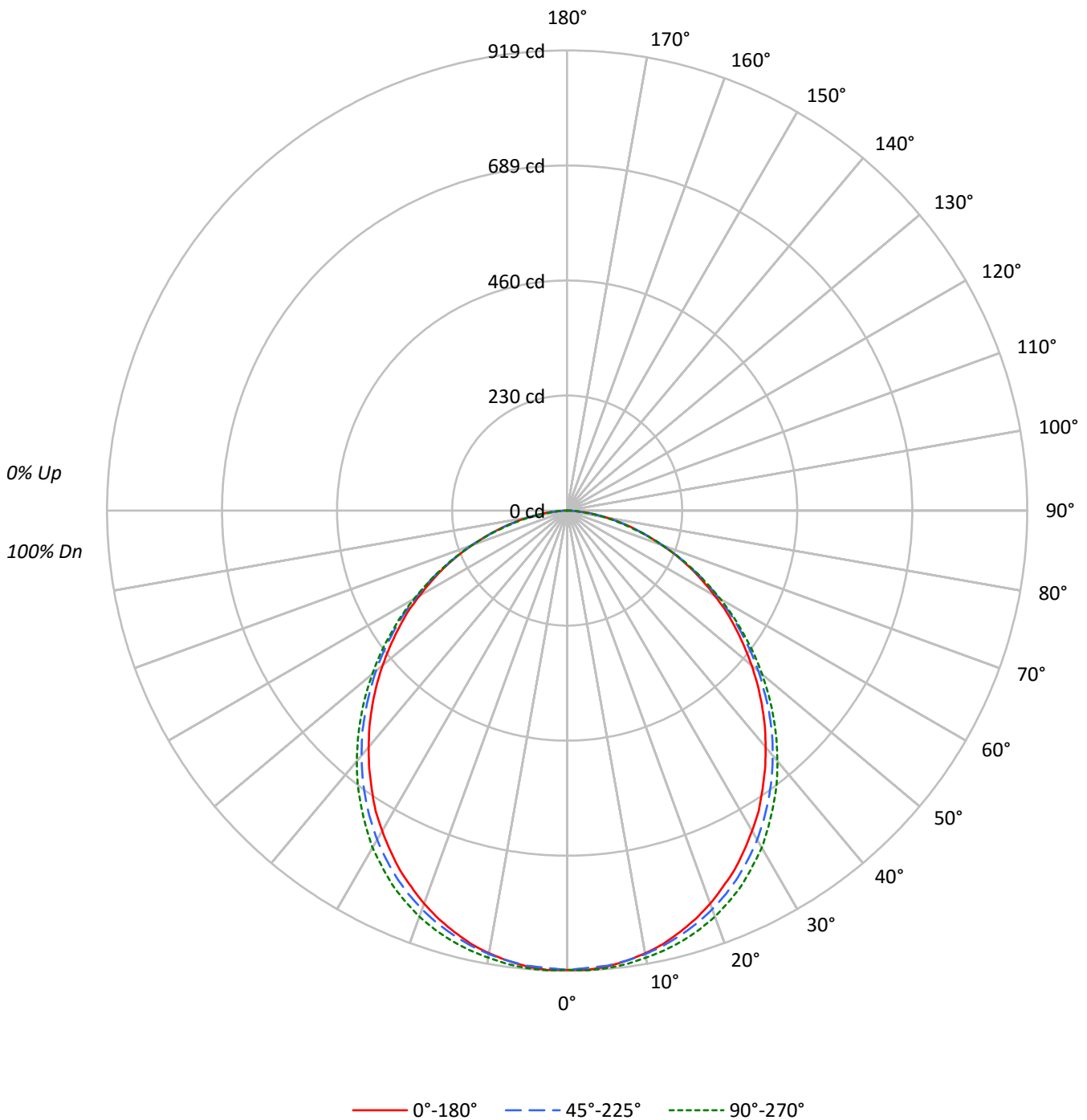
Input Watts (W): 21.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	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	41	39					39			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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	28	38	32	27	37	32	27	26					26			

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

	0°	45°	90°
0°	1234	1234	1234
5°	1235	1232	1239
10°	1227	1229	1239
15°	1213	1222	1239
20°	1196	1213	1236
25°	1175	1199	1226
30°	1148	1179	1208
35°	1117	1153	1180
40°	1083	1122	1147
45°	1047	1085	1109
50°	1007	1044	1063
55°	964	995	1010
60°	916	940	951
65°	864	877	882
70°	793	802	793
75°	714	710	688
80°	604	598	580
85°	452	438	389



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.9	3.6
10°-20°	248.1	10.3
20°-30°	372.0	15.4
30°-40°	438.1	18.2
40°-50°	438.2	18.2
50°-60°	378.0	15.7
60°-70°	272.0	11.3
70°-80°	144.3	6.0
80°-90°	34.4	1.4
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°	707.0	29.3
0°-40°	1145.1	47.5
0°-60°	1961.3	81.3
0°-90°	2412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2412.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	917	917	917	917	917	
5°	914	913	912	916	917	87
15°	871	874	878	886	890	246
25°	791	796	808	822	826	364
35°	680	688	702	714	718	425
45°	550	557	570	580	583	424
55°	411	415	424	431	431	368
65°	271	272	275	277	277	268
75°	137	136	136	133	132	146
85°	29	29	28	26	25	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	917.3	917.3	917.3	917.3	917.3
2.5°	918.1	916.5	914.1	917.3	919.0
5°	914.1	913.3	912.5	915.7	917.3
7.5°	906.8	907.6	906.8	911.6	913.3
10°	897.8	898.6	899.5	905.1	906.8
12.5°	886.5	887.3	889.7	897.0	899.5
15°	871.0	873.5	877.5	886.5	889.7
17.5°	854.8	858.0	863.7	874.3	877.5
20°	835.3	839.3	847.5	858.8	862.9
22.5°	813.3	817.4	828.8	841.0	845.0
25°	791.4	796.3	807.6	821.5	825.5
27.5°	765.4	771.9	784.1	797.9	801.1
30°	738.6	744.3	758.9	771.9	777.6
32.5°	711.8	717.4	731.3	744.3	748.3
35°	680.1	688.2	702.0	714.2	718.3
37.5°	649.2	656.5	671.1	683.3	687.4
40°	616.7	623.2	638.6	650.0	653.3
42.5°	584.2	590.7	606.1	615.1	618.3
45°	550.1	557.4	570.4	580.1	582.6
47.5°	515.9	521.6	533.8	542.8	546.0
50°	481.0	486.7	498.9	506.2	507.8
52.5°	446.1	450.1	461.5	468.0	470.4
55°	411.1	415.2	424.1	431.4	430.6
57.5°	377.8	379.4	388.4	393.3	393.3
60°	340.4	342.1	349.4	352.6	353.4
62.5°	305.5	307.9	313.6	314.4	314.4
65°	271.4	272.2	275.4	277.1	277.1
67.5°	237.3	236.4	239.7	239.7	238.9
70°	201.5	203.1	203.9	202.3	201.5
72.5°	169.0	168.2	168.2	167.4	167.4
75°	137.3	135.7	136.5	133.3	132.4
77.5°	108.1	105.6	104.8	103.2	101.6
80°	78.0	78.0	77.2	75.6	74.8
82.5°	52.0	52.0	51.2	49.6	47.9
85°	29.3	29.3	28.4	26.0	25.2
87.5°	9.8	9.8	9.8	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)