

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: P297738

Luminaire Tested: **D3X-WG-31L82765-LD5-UNV-14-T1-W2A-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297738  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)  
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-14-T1-W2A-5500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3075.0 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

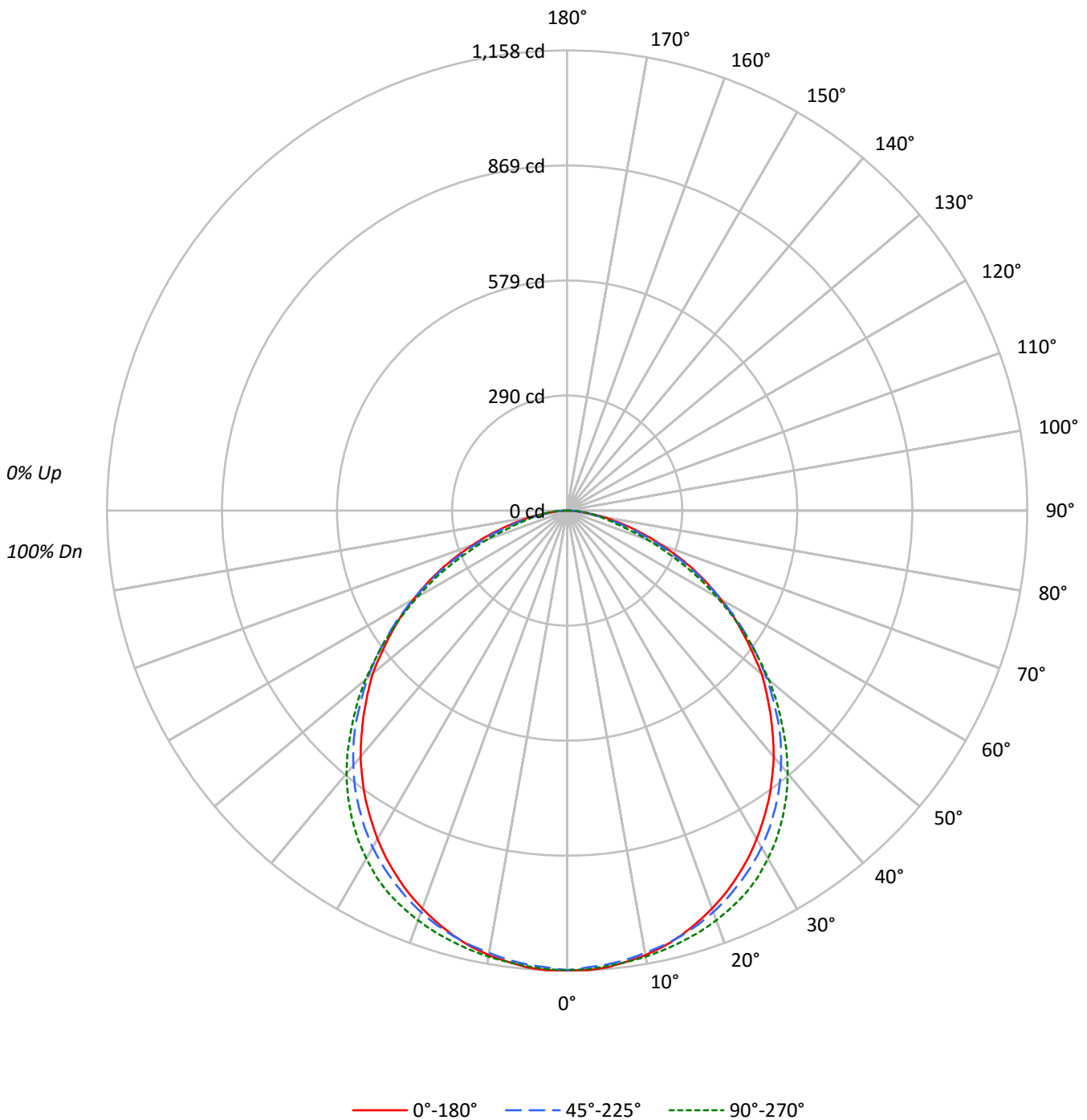
Input Watts (W): 29.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	82	77		83	79	75		80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		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	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

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

	0°	45°	90°
0°	3112	3112	3112
5°	3116	3098	3109
10°	3104	3089	3115
15°	3084	3088	3126
20°	3052	3079	3142
25°	3013	3062	3156
30°	2965	3042	3141
35°	2909	3000	3103
40°	2840	2942	3034
45°	2753	2857	2915
50°	2677	2746	2775
55°	2542	2594	2580
60°	2405	2405	2338
65°	2232	2180	2057
70°	1980	1893	1710
75°	1716	1559	1315
80°	1407	1215	1193
85°	936	1105	1189



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.3	3.6
10°-20°	313.9	10.2
20°-30°	477.0	15.5
30°-40°	571.1	18.6
40°-50°	576.1	18.7
50°-60°	490.7	16.0
60°-70°	335.5	10.9
70°-80°	160.7	5.2
80°-90°	40.7	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°	900.2	29.3
0°-40°	1471.3	47.8
0°-60°	2538.1	82.5
0°-90°	3075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3075.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1154	1152	1147	1152	1151	110
15°	1107	1104	1108	1121	1122	312
25°	1015	1016	1031	1055	1063	467
35°	886	888	913	939	945	553
45°	723	729	751	766	766	558
55°	542	544	553	554	550	485
65°	351	344	342	330	323	346
75°	165	162	150	131	126	176
85°	30	33	36	37	38	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1156.5	1156.5	1156.5	1156.5	1156.5
2.5°	1157.8	1156.5	1150.9	1156.5	1155.1
5°	1153.7	1152.3	1146.8	1152.3	1150.9
7.5°	1145.4	1144.1	1139.9	1145.4	1145.4
10°	1135.8	1133.1	1130.3	1138.6	1139.9
12.5°	1123.4	1120.7	1120.7	1130.3	1131.7
15°	1106.9	1104.2	1108.3	1120.7	1122.1
17.5°	1087.7	1086.3	1093.2	1108.3	1111.1
20°	1065.7	1064.3	1075.3	1093.2	1097.3
22.5°	1042.3	1042.3	1054.7	1075.3	1080.8
25°	1014.8	1016.2	1031.3	1054.7	1062.9
27.5°	985.9	988.7	1006.6	1032.7	1039.6
30°	954.3	958.4	979.1	1003.8	1010.7
32.5°	919.9	924.1	947.4	973.6	980.4
35°	885.6	888.3	913.1	939.2	944.7
37.5°	847.1	851.2	877.3	900.7	906.2
40°	808.6	812.7	837.4	859.4	863.6
42.5°	765.9	771.4	796.2	814.1	816.8
45°	723.3	728.8	750.8	765.9	765.9
47.5°	680.7	683.4	702.7	717.8	716.4
50°	639.4	638.0	655.9	662.8	662.8
52.5°	588.5	592.7	605.0	609.2	605.0
55°	541.8	544.5	552.8	554.2	550.0
57.5°	496.4	495.0	501.9	497.8	492.3
60°	446.9	446.9	446.9	442.8	434.5
62.5°	398.8	396.0	394.7	385.0	380.9
65°	350.6	343.8	342.4	330.0	323.1
67.5°	299.8	297.0	290.1	277.8	265.4
70°	251.6	248.9	240.6	225.5	217.3
72.5°	207.6	204.9	193.9	176.0	165.0
75°	165.0	162.3	149.9	130.6	126.5
77.5°	125.1	123.8	111.4	101.8	100.4
80°	90.8	89.4	78.4	78.4	77.0
82.5°	57.8	57.8	55.0	56.4	57.8
85°	30.3	33.0	35.8	37.1	38.5
87.5°	9.6	15.1	17.9	19.3	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)