

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: P298194

Luminaire Tested: **D3X-WG-35L82765-LD5-UNV-22-T1-W2A-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298194  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-35L82765-LD5-UNV-22-T1-W2A-2700K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3048.0 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

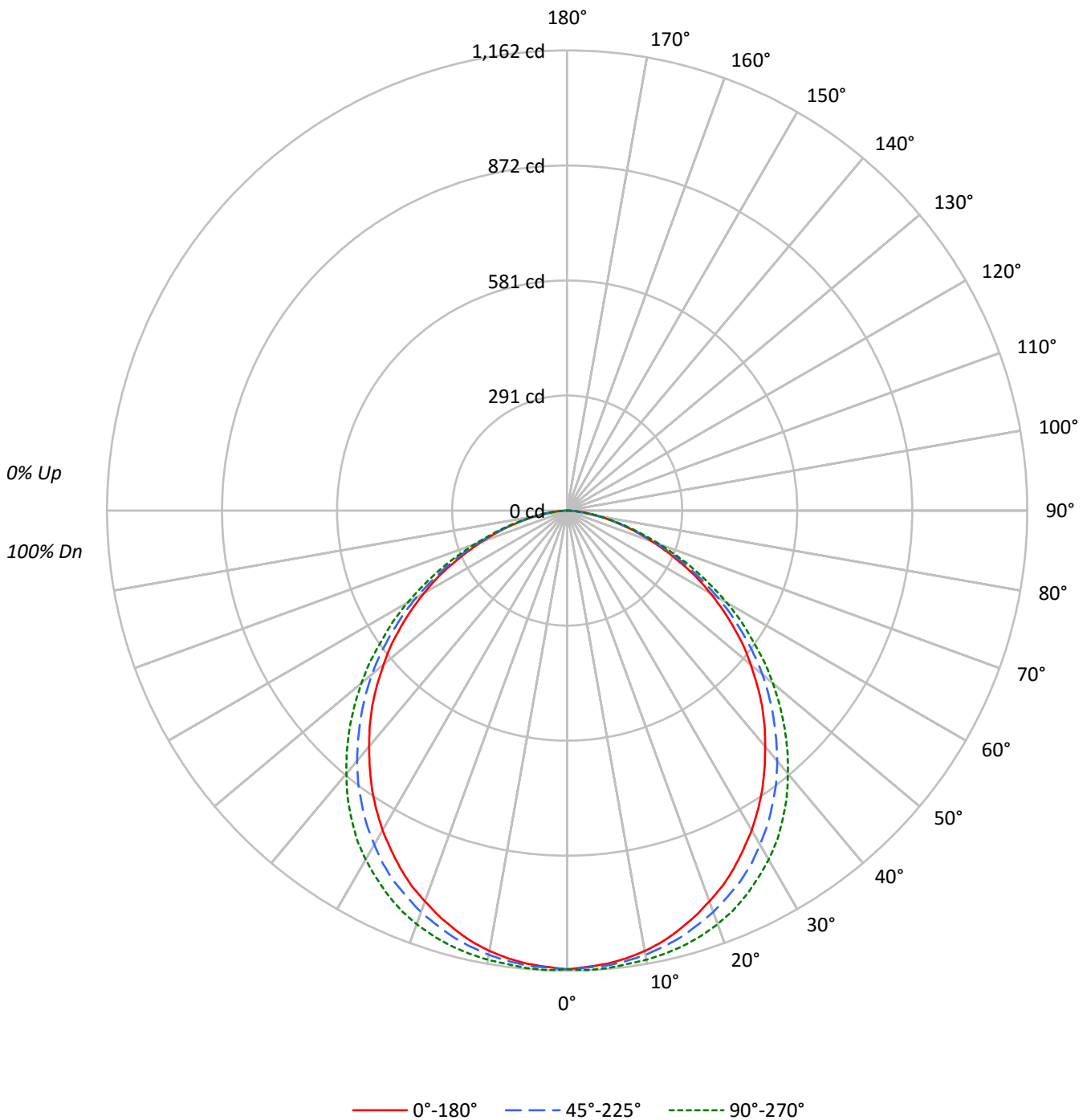
Input Watts (W): 27.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	86	80	97	90	84	79	87	82	77	83	79	76	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	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	3117	3117	3117
5°	3103	3116	3133
10°	3086	3112	3147
15°	3051	3105	3168
20°	3007	3090	3183
25°	2959	3069	3180
30°	2895	3026	3162
35°	2822	2971	3120
40°	2733	2898	3046
45°	2647	2801	2955
50°	2533	2696	2838
55°	2406	2542	2679
60°	2246	2368	2507
65°	2050	2143	2266
70°	1795	1871	1947
75°	1530	1565	1631
80°	1229	1254	1278
85°	898	849	800



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.6	3.6
10°-20°	314.7	10.3
20°-30°	475.7	15.6
30°-40°	565.0	18.5
40°-50°	567.3	18.6
50°-60°	484.5	15.9
60°-70°	333.8	11.0
70°-80°	161.9	5.3
80°-90°	35.4	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°	900.0	29.5
0°-40°	1465.1	48.1
0°-60°	2516.9	82.6
0°-90°	3048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3048.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1158	1158	1158	1158	1158	
5°	1149	1149	1154	1157	1160	109
15°	1095	1100	1115	1129	1137	309
25°	996	1005	1034	1061	1071	459
35°	859	872	904	938	950	537
45°	696	705	736	767	776	535
55°	513	521	542	565	571	458
65°	322	322	336	351	356	319
75°	147	144	150	154	157	158
85°	29	29	28	26	26	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1158.3	1158.3	1158.3	1158.3	<i>1158.3</i>
2.5°	<i>1153.5</i>	<i>1153.5</i>	<i>1155.1</i>	<i>1159.9</i>	<i>1161.5</i>
5°	1148.6	1148.6	1153.5	1156.7	<i>1159.9</i>
7.5°	1140.5	1142.1	1147.0	1153.5	<i>1155.1</i>
10°	1129.2	1130.8	1138.9	1147.0	<i>1151.8</i>
12.5°	1114.6	1117.9	1127.6	1140.5	<i>1145.4</i>
15°	1095.2	1100.1	1114.6	1129.2	<i>1137.3</i>
17.5°	1074.2	1080.7	1096.8	1117.9	<i>1126.0</i>
20°	1049.9	1058.0	1079.0	1101.7	<i>1111.4</i>
22.5°	1025.7	1032.1	1056.4	1082.3	<i>1093.6</i>
25°	996.5	1004.6	1033.7	1061.2	<i>1071.0</i>
27.5°	964.2	975.5	1006.2	1035.4	<i>1045.1</i>
30°	931.8	941.5	973.9	1006.2	<i>1017.6</i>
32.5°	896.2	905.9	941.5	973.9	<i>986.8</i>
35°	859.0	872.0	904.3	938.3	<i>949.6</i>
37.5°	818.6	833.1	867.1	896.2	<i>910.8</i>
40°	778.1	791.1	825.1	855.8	<i>867.1</i>
42.5°	737.7	749.0	781.4	813.7	<i>823.4</i>
45°	695.6	705.3	736.1	766.8	<i>776.5</i>
47.5°	650.3	661.7	690.8	716.7	<i>728.0</i>
50°	605.0	616.4	643.9	668.1	<i>677.8</i>
52.5°	561.4	567.8	593.7	616.4	<i>627.7</i>
55°	512.8	520.9	541.9	564.6	<i>571.1</i>
57.5°	465.9	470.8	491.8	511.2	<i>520.9</i>
60°	417.4	420.6	440.0	454.6	<i>465.9</i>
62.5°	372.1	372.1	386.6	402.8	<i>409.3</i>
65°	321.9	321.9	336.5	351.1	<i>355.9</i>
67.5°	273.4	276.6	286.3	297.7	<i>300.9</i>
70°	228.1	228.1	237.8	245.9	<i>247.5</i>
72.5°	187.7	186.0	190.9	197.4	<i>200.6</i>
75°	147.2	144.0	150.5	153.7	<i>156.9</i>
77.5°	111.6	110.0	113.2	116.5	<i>116.5</i>
80°	79.3	77.7	80.9	80.9	<i>82.5</i>
82.5°	51.8	53.4	53.4	51.8	<i>50.2</i>
85°	29.1	29.1	27.5	25.9	<i>25.9</i>
87.5°	9.7	9.7	9.7	11.3	<i>11.3</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)