

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: P298191

Luminaire Tested: **D3X-WG-31L82765-LD5-UNV-22-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298191
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-31L82765-LD5-UNV-22-T1-W2A-5500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3068.0 lumens
Efficiency: N/A
Efficacy: 122.2 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

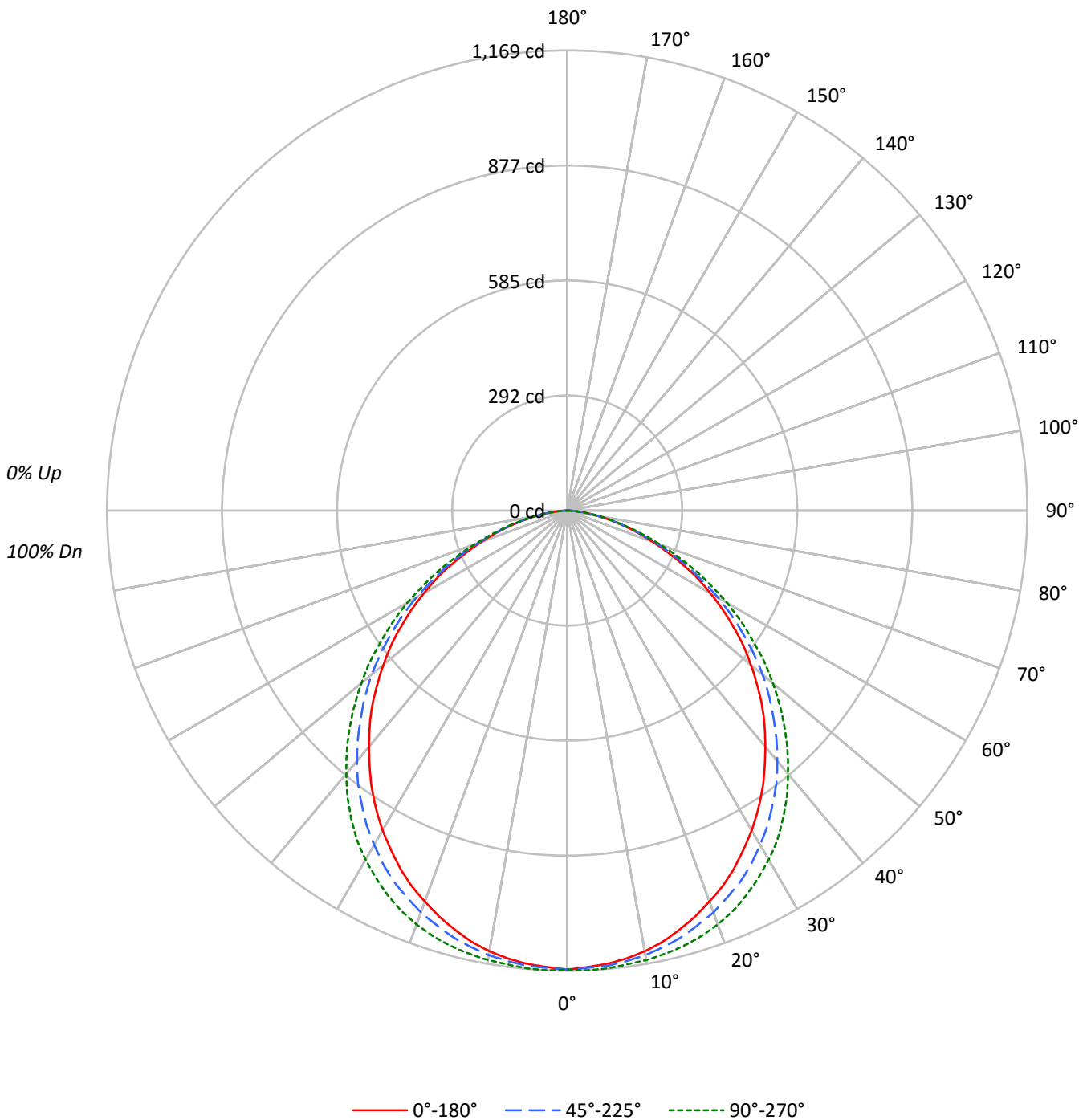
Input Watts (W): 25.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3137	3137	3137
5°	3123	3136	3154
10°	3106	3133	3168
15°	3071	3126	3189
20°	3026	3110	3204
25°	2978	3089	3201
30°	2914	3046	3182
35°	2841	2990	3140
40°	2751	2917	3066
45°	2665	2820	2974
50°	2550	2713	2856
55°	2422	2559	2697
60°	2261	2384	2524
65°	2063	2157	2281
70°	1806	1884	1960
75°	1541	1574	1643
80°	1237	1261	1286
85°	905	855	806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	3.6
10°-20°	316.7	10.3
20°-30°	478.8	15.6
30°-40°	568.8	18.5
40°-50°	571.0	18.6
50°-60°	487.7	15.9
60°-70°	336.0	11.0
70°-80°	162.9	5.3
80°-90°	35.6	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°	905.9	29.5
0°-40°	1474.7	48.1
0°-60°	2533.4	82.6
0°-90°	3068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3068.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1166	1166	1166	1166	1166	
5°	1156	1156	1161	1164	1168	110
15°	1102	1107	1122	1137	1145	311
25°	1003	1011	1040	1068	1078	462
35°	865	878	910	944	956	540
45°	700	710	741	772	782	539
55°	516	524	546	568	575	461
65°	324	324	339	353	358	321
75°	148	145	151	155	158	159
85°	29	29	28	26	26	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1165.9	1165.9	1165.9	1165.9	<i>1165.9</i>
2.5°	<i>1161.0</i>	<i>1161.0</i>	<i>1162.7</i>	<i>1167.5</i>	<i>1169.2</i>
5°	1156.1	1156.1	1161.0	1164.3	<i>1167.5</i>
7.5°	1148.0	1149.6	1154.5	1161.0	<i>1162.7</i>
10°	1136.6	1138.2	1146.4	1154.5	<i>1159.4</i>
12.5°	1121.9	1125.2	1135.0	1148.0	<i>1152.9</i>
15°	1102.4	1107.3	1121.9	1136.6	<i>1144.7</i>
17.5°	1081.2	1087.7	1104.0	1125.2	<i>1133.3</i>
20°	1056.8	1065.0	1086.1	1108.9	<i>1118.7</i>
22.5°	1032.4	1038.9	1063.3	1089.4	<i>1100.8</i>
25°	1003.1	1011.2	1040.5	1068.2	<i>1078.0</i>
27.5°	970.5	981.9	1012.8	1042.2	<i>1051.9</i>
30°	937.9	947.7	980.3	1012.8	<i>1024.2</i>
32.5°	902.1	911.9	947.7	980.3	<i>993.3</i>
35°	864.7	877.7	910.3	944.5	<i>955.9</i>
37.5°	824.0	838.6	872.8	902.1	<i>916.8</i>
40°	783.2	796.3	830.5	861.4	<i>872.8</i>
42.5°	742.5	753.9	786.5	819.1	<i>828.8</i>
45°	700.2	710.0	740.9	771.8	<i>781.6</i>
47.5°	654.6	666.0	695.3	721.4	<i>732.8</i>
50°	609.0	620.4	648.1	672.5	<i>682.3</i>
52.5°	565.0	571.6	597.6	620.4	<i>631.8</i>
55°	516.2	524.3	545.5	568.3	<i>574.8</i>
57.5°	469.0	473.9	495.0	514.6	<i>524.3</i>
60°	420.1	423.4	442.9	457.6	<i>469.0</i>
62.5°	374.5	374.5	389.2	405.5	<i>412.0</i>
65°	324.0	324.0	338.7	353.4	<i>358.2</i>
67.5°	275.2	278.5	288.2	299.6	<i>302.9</i>
70°	229.6	229.6	239.4	247.5	<i>249.1</i>
72.5°	188.9	187.3	192.1	198.7	<i>201.9</i>
75°	148.2	144.9	151.4	154.7	<i>158.0</i>
77.5°	112.4	110.7	114.0	117.2	<i>117.2</i>
80°	79.8	78.2	81.4	81.4	<i>83.0</i>
82.5°	52.1	53.7	53.7	52.1	<i>50.5</i>
85°	29.3	29.3	27.7	26.1	<i>26.1</i>
87.5°	9.8	9.8	9.8	11.4	<i>11.4</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)