

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: P298189

Luminaire Tested: **D3X-WG-31L82765-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298189
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-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2997.0 lumens
Efficiency: N/A
Efficacy: 120.4 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

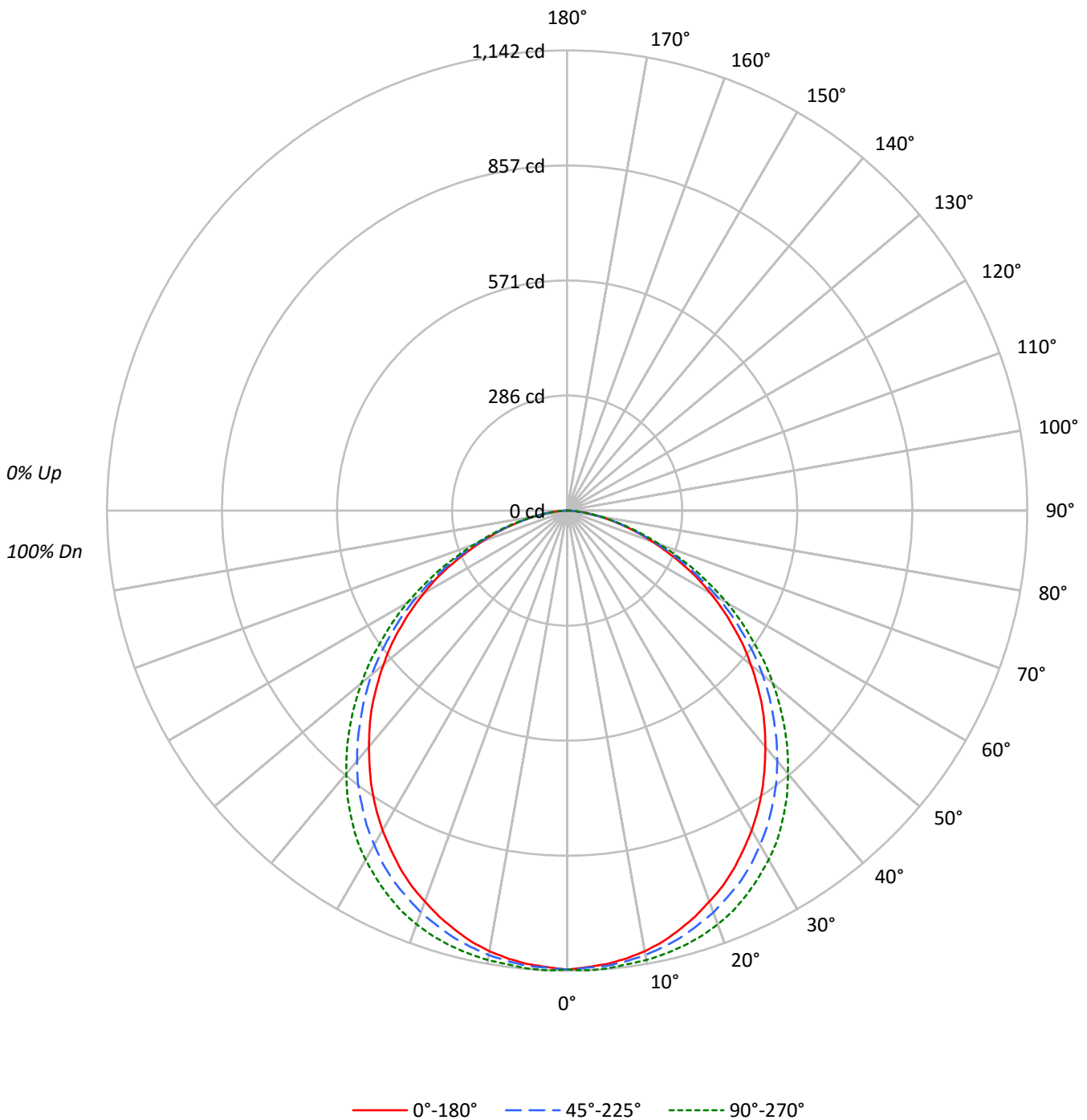
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3065	3065	3065
5°	3051	3064	3081
10°	3034	3060	3095
15°	3000	3053	3115
20°	2956	3038	3129
25°	2909	3018	3127
30°	2847	2976	3109
35°	2775	2921	3067
40°	2688	2850	2995
45°	2603	2755	2906
50°	2491	2650	2790
55°	2365	2500	2634
60°	2209	2329	2465
65°	2015	2107	2229
70°	1765	1840	1915
75°	1506	1538	1604
80°	1207	1232	1257
85°	883	834	787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	3.6
10°-20°	309.4	10.3
20°-30°	467.8	15.6
30°-40°	555.6	18.5
40°-50°	557.8	18.6
50°-60°	476.4	15.9
60°-70°	328.3	11.0
70°-80°	159.2	5.3
80°-90°	34.8	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°	885.0	29.5
0°-40°	1440.6	48.1
0°-60°	2474.8	82.6
0°-90°	2997.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2997.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1129	1129	1134	1137	1140	107
15°	1077	1082	1096	1110	1118	304
25°	980	988	1016	1044	1053	451
35°	845	857	889	923	934	528
45°	684	694	724	754	764	527
55°	504	512	533	555	562	451
65°	316	316	331	345	350	314
75°	145	142	148	151	154	156
85°	29	29	27	26	26	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1138.9	1138.9	1138.9	1138.9	<i>1138.9</i>
2.5°	<i>1134.2</i>	<i>1134.2</i>	<i>1135.7</i>	<i>1140.5</i>	<i>1142.1</i>
5°	1129.4	1129.4	1134.2	1137.3	<i>1140.5</i>
7.5°	1121.4	1123.0	1127.8	1134.2	<i>1135.7</i>
10°	1110.3	1111.9	1119.8	1127.8	<i>1132.6</i>
12.5°	1096.0	1099.2	1108.7	1121.4	<i>1126.2</i>
15°	1076.9	1081.7	1096.0	1110.3	<i>1118.2</i>
17.5°	1056.2	1062.6	1078.5	1099.2	<i>1107.1</i>
20°	1032.4	1040.3	1061.0	1083.3	<i>1092.8</i>
22.5°	1008.5	1014.9	1038.7	1064.2	<i>1075.3</i>
25°	979.9	987.8	1016.4	1043.5	<i>1053.0</i>
27.5°	948.0	959.2	989.4	1018.0	<i>1027.6</i>
30°	916.2	925.8	957.6	989.4	<i>1000.5</i>
32.5°	881.2	890.8	925.8	957.6	<i>970.3</i>
35°	844.7	857.4	889.2	922.6	<i>933.7</i>
37.5°	804.9	819.2	852.6	881.2	<i>895.6</i>
40°	765.1	777.8	811.2	841.5	<i>852.6</i>
42.5°	725.4	736.5	768.3	800.1	<i>809.7</i>
45°	684.0	693.5	723.8	754.0	<i>763.5</i>
47.5°	639.5	650.6	679.2	704.7	<i>715.8</i>
50°	594.9	606.1	633.1	657.0	<i>666.5</i>
52.5°	552.0	558.3	583.8	606.1	<i>617.2</i>
55°	504.2	512.2	532.9	555.1	<i>561.5</i>
57.5°	458.1	462.9	483.6	502.7	<i>512.2</i>
60°	410.4	413.6	432.7	447.0	<i>458.1</i>
62.5°	365.9	365.9	380.2	396.1	<i>402.4</i>
65°	316.5	316.5	330.9	345.2	<i>350.0</i>
67.5°	268.8	272.0	281.6	292.7	<i>295.9</i>
70°	224.3	224.3	233.8	241.8	<i>243.4</i>
72.5°	184.5	182.9	187.7	194.1	<i>197.2</i>
75°	144.8	141.6	147.9	151.1	<i>154.3</i>
77.5°	109.8	108.2	111.3	114.5	<i>114.5</i>
80°	77.9	76.4	79.5	79.5	<i>81.1</i>
82.5°	50.9	52.5	52.5	50.9	<i>49.3</i>
85°	28.6	28.6	27.0	25.5	<i>25.5</i>
87.5°	9.5	9.5	9.5	11.1	<i>11.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)