

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: P298188

Luminaire Tested: **D3X-WG-31L82765-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298188
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-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2945.0 lumens
Efficiency: N/A
Efficacy: 119.2 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

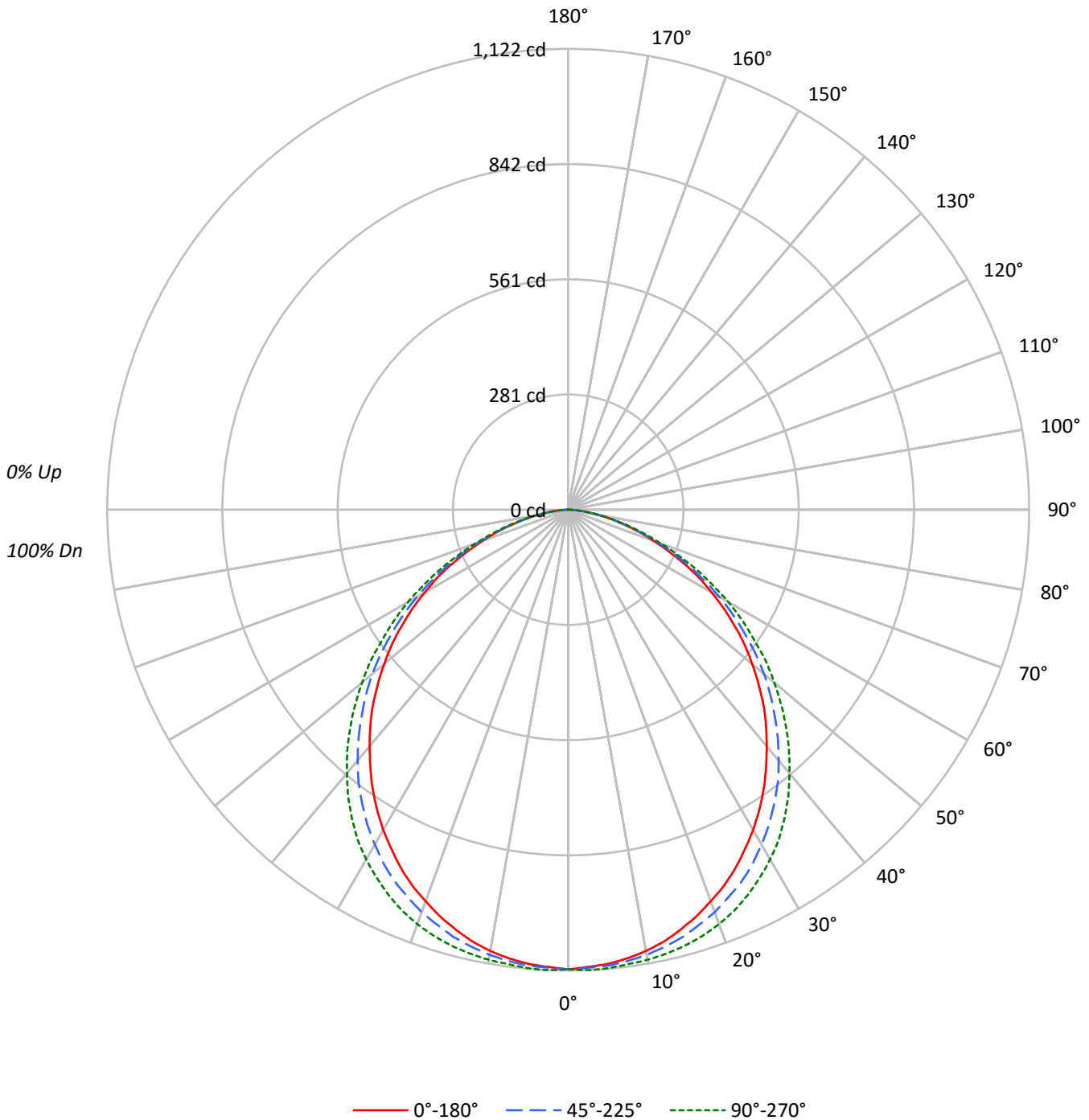
Input Watts (W): 24.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3012	3012	3012
5°	2998	3011	3027
10°	2981	3007	3041
15°	2948	3000	3061
20°	2905	2986	3075
25°	2859	2966	3072
30°	2797	2924	3055
35°	2727	2871	3014
40°	2641	2800	2943
45°	2558	2707	2855
50°	2447	2604	2742
55°	2325	2457	2589
60°	2171	2288	2423
65°	1981	2070	2190
70°	1734	1808	1882
75°	1478	1512	1576
80°	1187	1212	1235
85°	868	821	772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	3.6
10°-20°	304.0	10.3
20°-30°	459.6	15.6
30°-40°	545.9	18.5
40°-50°	548.1	18.6
50°-60°	468.2	15.9
60°-70°	322.6	11.0
70°-80°	156.4	5.3
80°-90°	34.2	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°	869.6	29.5
0°-40°	1415.6	48.1
0°-60°	2431.8	82.6
0°-90°	2945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2945.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1119	1119	1119	1119	1119	
5°	1110	1110	1114	1118	1121	105
15°	1058	1063	1077	1091	1099	298
25°	963	971	999	1025	1035	443
35°	830	842	874	907	918	518
45°	672	682	711	741	750	517
55°	496	503	524	546	552	443
65°	311	311	325	339	344	308
75°	142	139	145	148	152	153
85°	28	28	27	25	25	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1119.2	1119.2	1119.2	1119.2	1119.2
2.5°	1114.5	1114.5	1116.0	1120.7	1122.3
5°	1109.8	1109.8	1114.5	1117.6	1120.7
7.5°	1102.0	1103.5	1108.2	1114.5	1116.0
10°	1091.0	1092.6	1100.4	1108.2	1112.9
12.5°	1077.0	1080.1	1089.5	1102.0	1106.7
15°	1058.2	1062.9	1077.0	1091.0	1098.8
17.5°	1037.9	1044.1	1059.8	1080.1	1087.9
20°	1014.4	1022.3	1042.6	1064.5	1073.8
22.5°	991.0	997.2	1020.7	1045.7	1056.6
25°	962.9	970.7	998.8	1025.4	1034.8
27.5°	931.6	942.5	972.2	1000.4	1009.8
30°	900.3	909.7	941.0	972.2	983.2
32.5°	865.9	875.3	909.7	941.0	953.5
35°	830.0	842.5	873.8	906.6	917.5
37.5°	790.9	805.0	837.8	865.9	880.0
40°	751.8	764.3	797.2	826.9	837.8
42.5°	712.8	723.7	755.0	786.2	795.6
45°	672.1	681.5	711.2	740.9	750.3
47.5°	628.4	639.3	667.4	692.4	703.4
50°	584.6	595.5	622.1	645.6	654.9
52.5°	542.4	548.6	573.7	595.5	606.5
55°	495.5	503.3	523.6	545.5	551.8
57.5°	450.2	454.9	475.2	493.9	503.3
60°	403.3	406.4	425.2	439.2	450.2
62.5°	359.5	359.5	373.6	389.2	395.5
65°	311.1	311.1	325.1	339.2	343.9
67.5°	264.2	267.3	276.7	287.6	290.7
70°	220.4	220.4	229.8	237.6	239.2
72.5°	181.3	179.8	184.4	190.7	193.8
75°	142.2	139.1	145.4	148.5	151.6
77.5°	107.9	106.3	109.4	112.5	112.5
80°	76.6	75.0	78.2	78.2	79.7
82.5°	50.0	51.6	51.6	50.0	48.5
85°	28.1	28.1	26.6	25.0	25.0
87.5°	9.4	9.4	9.4	10.9	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)