

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: P297047

Luminaire Tested: **D3X-WG-31L82765-LD5-UNV-24-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
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-24-T1-W2A-6500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3047.0 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

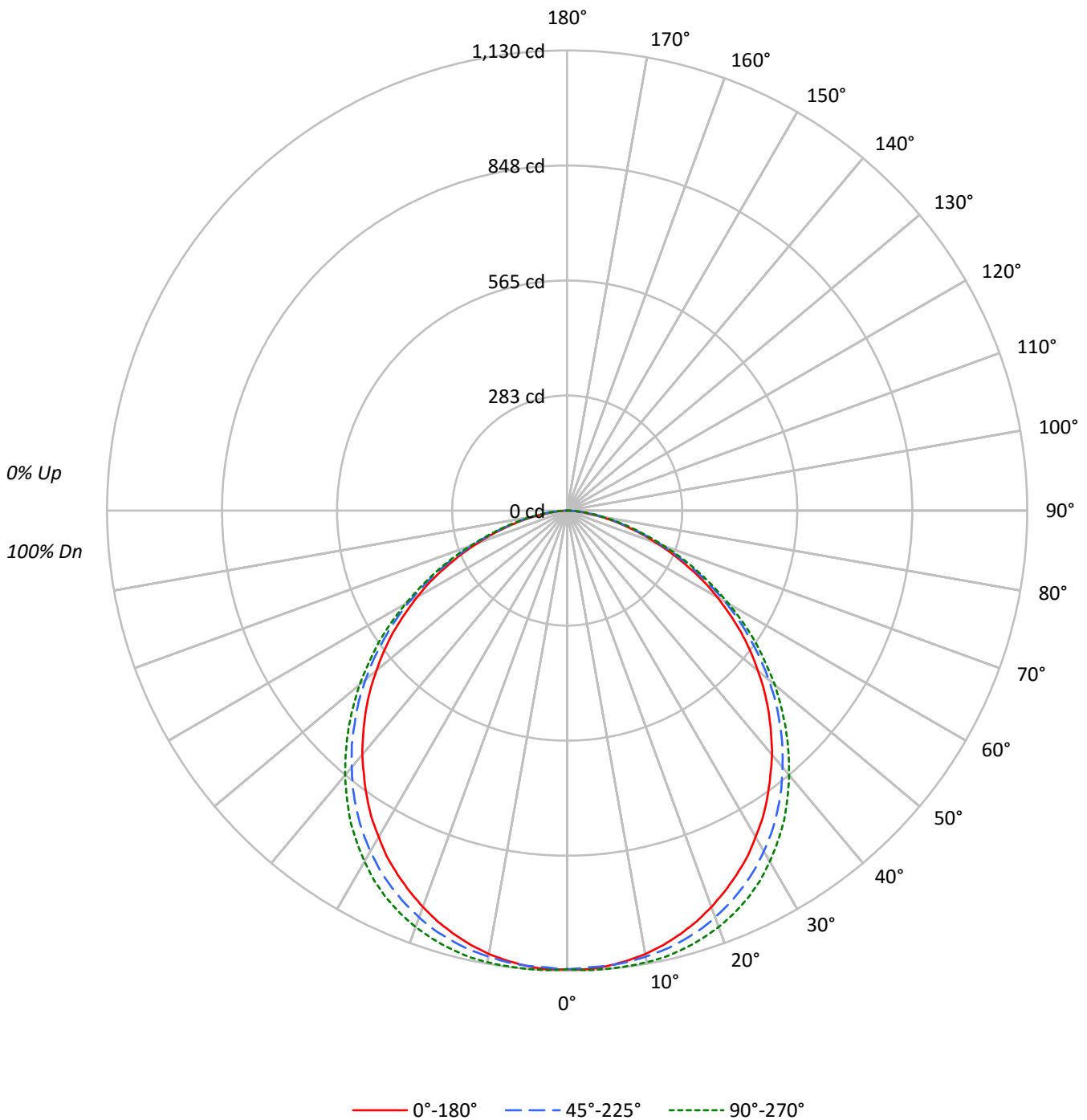
Input Watts (W): 22.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1516	1516	1516
5°	1517	1515	1526
10°	1511	1520	1539
15°	1499	1523	1551
20°	1483	1522	1558
25°	1463	1515	1559
30°	1438	1501	1546
35°	1409	1479	1526
40°	1375	1446	1490
45°	1331	1404	1446
50°	1279	1353	1394
55°	1224	1285	1326
60°	1146	1204	1234
65°	1046	1102	1129
70°	919	966	992
75°	777	817	845
80°	618	676	693
85°	421	505	489



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	3.5
10°-20°	309.0	10.1
20°-30°	469.6	15.4
30°-40°	560.3	18.4
40°-50°	565.9	18.6
50°-60°	487.6	16.0
60°-70°	339.9	11.2
70°-80°	168.4	5.5
80°-90°	39.3	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°	885.6	29.1
0°-40°	1445.9	47.5
0°-60°	2499.4	82.0
0°-90°	3047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1123	1122	1122	1128	1130	107
15°	1076	1082	1094	1108	1113	304
25°	986	999	1020	1041	1050	454
35°	858	872	900	921	929	536
45°	700	715	738	755	760	539
55°	522	533	548	561	565	465
65°	328	335	346	349	355	326
75°	150	152	157	160	163	161
85°	27	33	33	31	32	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1126.4	1126.4	1126.4	1126.4	1126.4
2.5°	1127.5	1125.3	1123.1	1127.5	1129.7
5°	1123.1	1122.0	1122.0	1127.5	1129.7
7.5°	1115.5	1115.5	1118.8	1126.4	1128.6
10°	1105.7	1107.9	1112.2	1123.1	1126.4
12.5°	1092.6	1096.9	1104.6	1117.7	1122.0
15°	1076.2	1081.7	1093.7	1107.9	1113.3
17.5°	1057.6	1065.3	1080.6	1096.9	1102.4
20°	1035.8	1045.6	1063.1	1081.7	1088.2
22.5°	1011.8	1023.8	1043.5	1063.1	1070.7
25°	985.6	998.7	1020.5	1041.3	1050.0
27.5°	958.3	971.4	995.4	1016.2	1024.9
30°	925.6	940.9	966.0	987.8	995.4
32.5°	893.9	909.2	935.4	955.0	962.7
35°	857.9	872.1	900.5	921.2	928.9
37.5°	819.7	836.1	863.4	881.9	888.5
40°	782.6	796.8	823.0	841.5	848.1
42.5°	741.1	756.4	782.6	799.0	804.4
45°	699.6	714.9	737.8	755.3	759.7
47.5°	657.1	671.3	694.2	708.4	712.7
50°	611.2	624.3	646.2	660.3	665.8
52.5°	567.6	579.6	598.1	610.1	613.4
55°	521.7	532.6	547.9	561.0	565.4
57.5°	472.6	484.6	498.8	509.7	513.0
60°	425.7	435.5	447.5	457.3	458.4
62.5°	379.8	384.2	395.1	403.8	404.9
65°	328.5	335.1	346.0	349.3	354.7
67.5°	281.6	286.0	294.7	299.1	303.4
70°	233.6	236.9	245.6	251.0	252.1
72.5°	192.1	193.2	199.7	204.1	205.2
75°	149.5	151.7	157.2	160.4	162.6
77.5°	113.5	115.7	120.1	122.2	122.2
80°	79.7	83.0	87.3	88.4	89.5
82.5°	51.3	55.7	58.9	60.0	57.8
85°	27.3	32.7	32.7	30.6	31.7
87.5°	9.8	12.0	13.1	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)