

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: P297044

Luminaire Tested: **D3X-WG-31L82765-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297044
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-5000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3002.0 lumens
Efficiency: N/A
Efficacy: 138.3 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

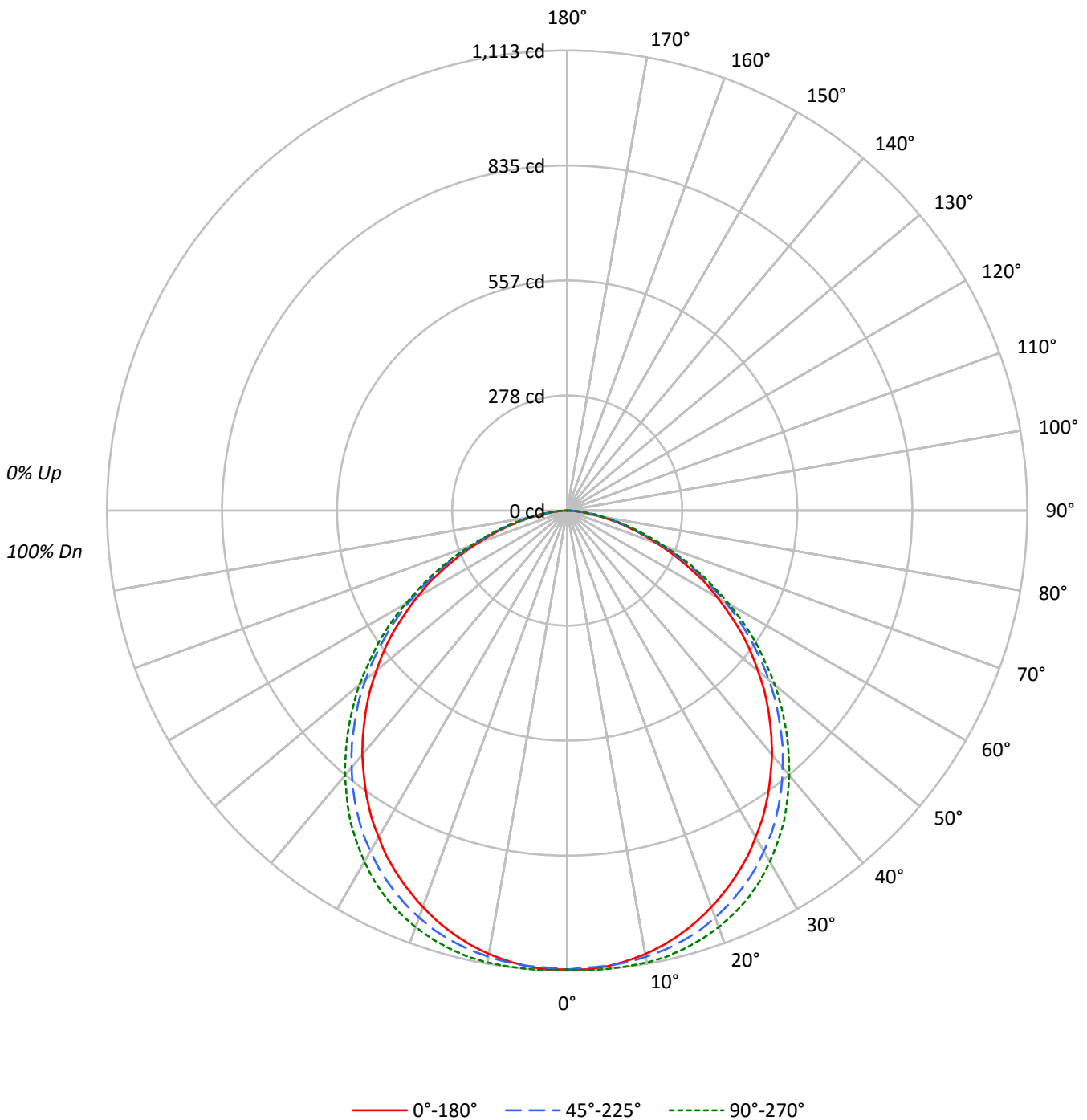
Input Watts (W): 21.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1493	1493	1493
5°	1494	1493	1503
10°	1488	1497	1516
15°	1477	1501	1528
20°	1461	1500	1535
25°	1442	1493	1536
30°	1417	1479	1524
35°	1388	1457	1503
40°	1354	1424	1468
45°	1312	1383	1424
50°	1261	1333	1373
55°	1206	1266	1307
60°	1129	1186	1216
65°	1031	1085	1113
70°	905	952	977
75°	766	805	833
80°	608	666	683
85°	415	499	482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	3.5
10°-20°	304.4	10.1
20°-30°	462.6	15.4
30°-40°	552.0	18.4
40°-50°	557.5	18.6
50°-60°	480.4	16.0
60°-70°	334.9	11.2
70°-80°	166.0	5.5
80°-90°	38.7	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°	872.5	29.1
0°-40°	1424.6	47.5
0°-60°	2462.5	82.0
0°-90°	3002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3002.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1110	1110	1110	1110	1110	
5°	1106	1106	1106	1111	1113	105
15°	1060	1066	1078	1092	1097	299
25°	971	984	1006	1026	1034	447
35°	845	859	887	908	915	528
45°	689	704	727	744	748	531
55°	514	525	540	553	557	458
65°	324	330	341	344	350	321
75°	147	150	155	158	160	159
85°	27	32	32	30	31	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1109.8	1109.8	1109.8	1109.8	1109.8
2.5°	1110.9	1108.7	1106.5	1110.9	1113.0
5°	1106.5	1105.5	1105.5	1110.9	1113.0
7.5°	1099.0	1099.0	1102.2	1109.8	1111.9
10°	1089.3	1091.5	1095.8	1106.5	1109.8
12.5°	1076.4	1080.7	1088.3	1101.2	1105.5
15°	1060.3	1065.7	1077.5	1091.5	1096.9
17.5°	1042.0	1049.6	1064.6	1080.7	1086.1
20°	1020.5	1030.2	1047.4	1065.7	1072.1
22.5°	996.9	1008.7	1028.0	1047.4	1054.9
25°	971.1	984.0	1005.5	1025.9	1034.5
27.5°	944.2	957.1	980.7	1001.2	1009.8
30°	911.9	927.0	951.7	973.2	980.7
32.5°	880.7	895.8	921.6	940.9	948.5
35°	845.2	859.2	887.2	907.6	915.1
37.5°	807.6	823.7	850.6	868.9	875.3
40°	771.0	785.0	810.8	829.1	835.6
42.5°	730.2	745.2	771.0	787.2	792.5
45°	689.3	704.4	726.9	744.2	748.5
47.5°	647.4	661.3	683.9	697.9	702.2
50°	602.2	615.1	636.6	650.6	656.0
52.5°	559.2	571.0	589.3	601.1	604.4
55°	514.0	524.8	539.8	552.7	557.0
57.5°	465.6	477.5	491.4	502.2	505.4
60°	419.4	429.1	440.9	450.6	451.7
62.5°	374.2	378.5	389.3	397.9	399.0
65°	323.7	330.1	340.9	344.1	349.5
67.5°	277.4	281.7	290.3	294.6	299.0
70°	230.1	233.4	242.0	247.3	248.4
72.5°	189.3	190.3	196.8	201.1	202.2
75°	147.3	149.5	154.9	158.1	160.2
77.5°	111.8	114.0	118.3	120.4	120.4
80°	78.5	81.7	86.0	87.1	88.2
82.5°	50.5	54.8	58.1	59.1	57.0
85°	26.9	32.3	32.3	30.1	31.2
87.5°	9.7	11.8	12.9	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)