

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: P296709

Luminaire Tested: **D3X-WD-31L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-31L83050-LD5-UNV-24-T1-W2A-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2750.0 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

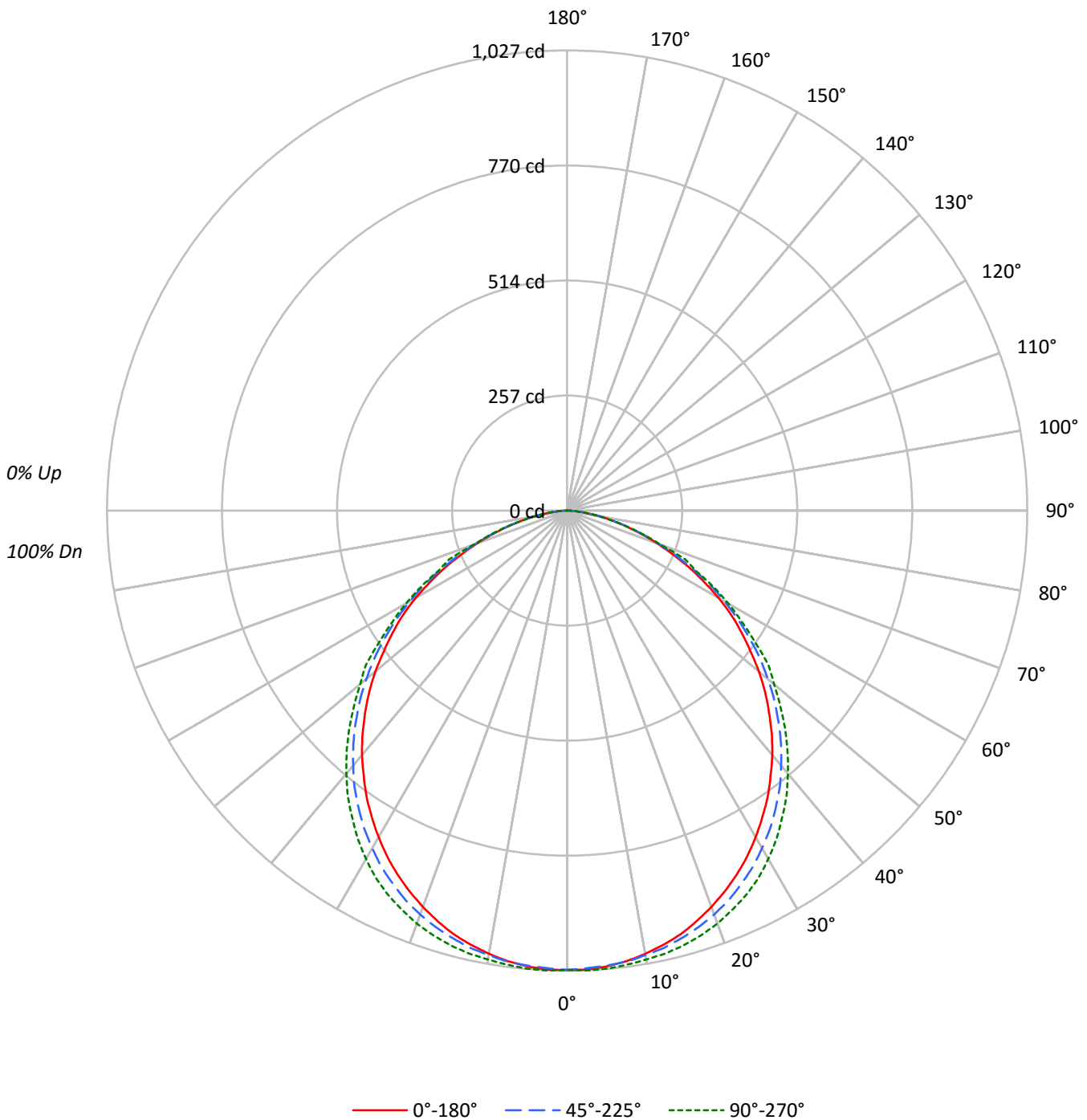
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
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	48	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	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1379	1379	1379
5°	1379	1377	1386
10°	1372	1376	1390
15°	1363	1376	1399
20°	1348	1373	1404
25°	1330	1365	1405
30°	1308	1352	1395
35°	1282	1332	1374
40°	1251	1305	1347
45°	1213	1269	1309
50°	1169	1225	1262
55°	1116	1167	1201
60°	1051	1091	1118
65°	955	986	1005
70°	838	858	869
75°	708	718	723
80°	566	573	558
85°	381	397	381



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	3.5
10°-20°	279.4	10.2
20°-30°	423.9	15.4
30°-40°	506.1	18.4
40°-50°	512.4	18.6
50°-60°	442.9	16.1
60°-70°	307.0	11.2
70°-80°	148.5	5.4
80°-90°	32.7	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°	800.5	29.1
0°-40°	1306.6	47.5
0°-60°	2261.9	82.2
0°-90°	2750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2750.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1025	1025	1025	1025	1025	
5°	1021	1020	1019	1024	1026	97
15°	979	981	988	1000	1004	276
25°	896	902	920	938	946	413
35°	780	787	811	832	837	488
45°	637	646	667	684	688	492
55°	476	480	497	518	512	425
65°	300	303	310	315	316	297
75°	136	137	138	137	139	146
85°	25	27	26	25	25	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1025.2	1025.2	1025.2	1025.2	1025.2
2.5°	1025.2	1024.2	1022.2	1025.2	1027.2
5°	1021.2	1020.2	1019.3	1024.2	1026.2
7.5°	1014.3	1014.3	1015.3	1020.2	1022.2
10°	1004.5	1005.4	1007.4	1015.3	1017.3
12.5°	992.6	994.6	999.5	1008.4	1012.4
15°	978.8	980.8	987.7	999.5	1004.5
17.5°	961.0	965.0	974.9	988.7	993.6
20°	941.3	946.2	959.1	974.9	980.8
22.5°	919.6	924.5	941.3	958.1	964.0
25°	895.9	901.8	919.6	938.4	946.2
27.5°	870.3	877.2	896.9	916.6	924.5
30°	841.7	849.5	870.3	891.0	897.9
32.5°	811.1	819.0	842.6	862.4	869.3
35°	780.5	787.4	811.1	831.8	836.7
37.5°	745.9	753.8	779.5	797.3	804.2
40°	712.4	720.3	743.0	760.7	766.7
42.5°	675.9	683.8	706.5	723.3	728.2
45°	637.4	646.3	667.0	683.8	687.7
47.5°	598.9	605.8	627.5	642.3	645.3
50°	558.5	565.4	585.1	599.9	602.9
52.5°	516.0	526.9	542.7	553.5	566.4
55°	475.6	480.5	497.3	518.0	512.1
57.5°	435.1	438.1	451.9	460.8	462.8
60°	390.7	394.7	405.5	410.5	415.4
62.5°	344.4	347.3	360.1	365.1	367.1
65°	300.0	302.9	309.8	314.8	315.7
67.5°	254.6	257.5	263.4	267.4	285.2
70°	213.1	215.1	218.1	226.0	221.0
72.5°	173.7	174.6	177.6	177.6	178.6
75°	136.2	137.2	138.1	137.2	139.1
77.5°	101.6	103.6	104.6	103.6	102.6
80°	73.0	75.0	74.0	72.0	72.0
82.5°	47.4	48.3	47.4	46.4	46.4
85°	24.7	26.6	25.7	24.7	24.7
87.5°	8.9	9.9	10.9	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)