

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: P297270

Luminaire Tested: **D3X-WO-31L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-31L83050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3100.0 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

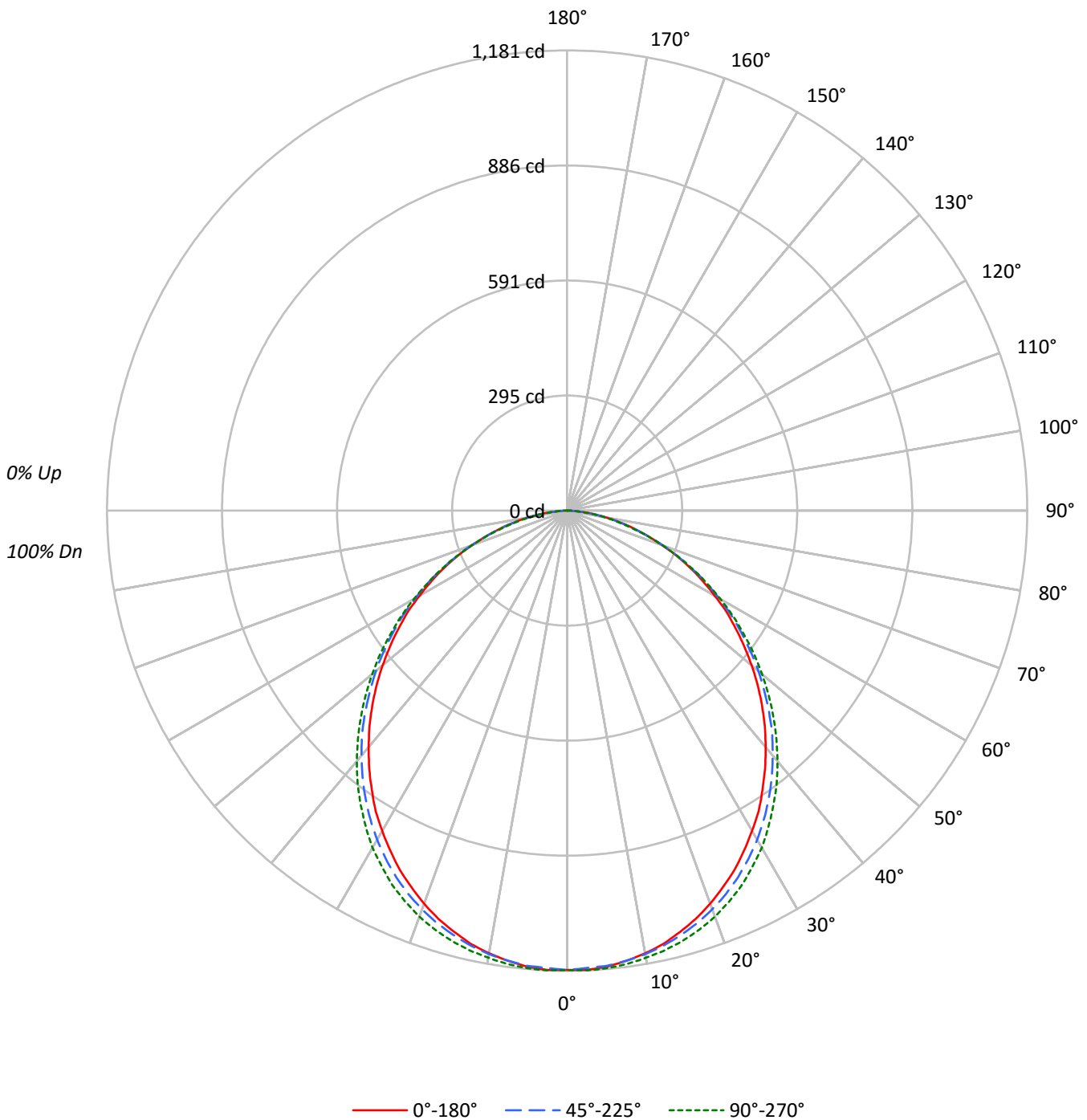
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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°	1586	1586	1586
5°	1587	1584	1592
10°	1577	1579	1592
15°	1559	1571	1593
20°	1537	1560	1588
25°	1510	1541	1575
30°	1475	1515	1553
35°	1436	1482	1516
40°	1392	1442	1475
45°	1345	1395	1425
50°	1294	1342	1366
55°	1240	1279	1298
60°	1178	1208	1223
65°	1110	1127	1134
70°	1019	1031	1019
75°	918	912	885
80°	777	769	745
85°	580	563	500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	3.6
10°-20°	318.9	10.3
20°-30°	478.1	15.4
30°-40°	563.1	18.2
40°-50°	563.1	18.2
50°-60°	485.9	15.7
60°-70°	349.6	11.3
70°-80°	185.5	6.0
80°-90°	44.2	1.4
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°	908.6	29.3
0°-40°	1471.7	47.5
0°-60°	2520.7	81.3
0°-90°	3100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3100.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1179	1179	1179	1179	1179	
5°	1175	1174	1173	1177	1179	111
15°	1120	1123	1128	1139	1144	316
25°	1017	1023	1038	1056	1061	468
35°	874	884	902	918	923	547
45°	707	716	733	746	749	545
55°	528	534	545	554	554	473
65°	349	350	354	356	356	345
75°	176	174	175	171	170	188
85°	38	38	36	33	32	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1179.0	1179.0	1179.0	1179.0	1179.0
2.5°	1180.0	1177.9	1174.8	1179.0	1181.1
5°	1174.8	1173.8	1172.7	1176.9	1179.0
7.5°	1165.4	1166.5	1165.4	1171.7	1173.8
10°	1153.9	1155.0	1156.0	1163.3	1165.4
12.5°	1139.3	1140.3	1143.5	1152.9	1156.0
15°	1119.5	1122.6	1127.8	1139.3	1143.5
17.5°	1098.6	1102.8	1110.1	1123.6	1127.8
20°	1073.5	1078.7	1089.2	1103.8	1109.0
22.5°	1045.3	1050.5	1065.2	1080.8	1086.0
25°	1017.1	1023.4	1038.0	1055.8	1061.0
27.5°	983.7	992.1	1007.7	1025.5	1029.7
30°	949.2	956.6	975.4	992.1	999.4
32.5°	914.8	922.1	939.8	956.6	961.8
35°	874.1	884.5	902.3	917.9	923.1
37.5°	834.4	843.8	862.6	878.2	883.5
40°	792.6	801.0	820.8	835.4	839.6
42.5°	750.8	759.2	779.0	790.5	794.7
45°	707.0	716.4	733.1	745.6	748.7
47.5°	663.1	670.4	686.1	697.6	701.8
50°	618.2	625.5	641.2	650.6	652.7
52.5°	573.3	578.5	593.1	601.5	604.6
55°	528.4	533.6	545.1	554.5	553.5
57.5°	485.6	487.7	499.2	505.4	505.4
60°	437.6	439.6	449.0	453.2	454.3
62.5°	392.6	395.8	403.1	404.1	404.1
65°	348.8	349.8	354.0	356.1	356.1
67.5°	304.9	303.9	308.1	308.1	307.0
70°	259.0	261.1	262.1	260.0	259.0
72.5°	217.2	216.2	216.2	215.1	215.1
75°	176.5	174.4	175.4	171.3	170.2
77.5°	138.9	135.8	134.7	132.6	130.5
80°	100.3	100.3	99.2	97.1	96.1
82.5°	66.8	66.8	65.8	63.7	61.6
85°	37.6	37.6	36.5	33.4	32.4
87.5°	12.5	12.5	12.5	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)