

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: P297272

Luminaire Tested: **D3X-WO-31L83050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297272
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-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3286.0 lumens
Efficiency: N/A
Efficacy: 148.0 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

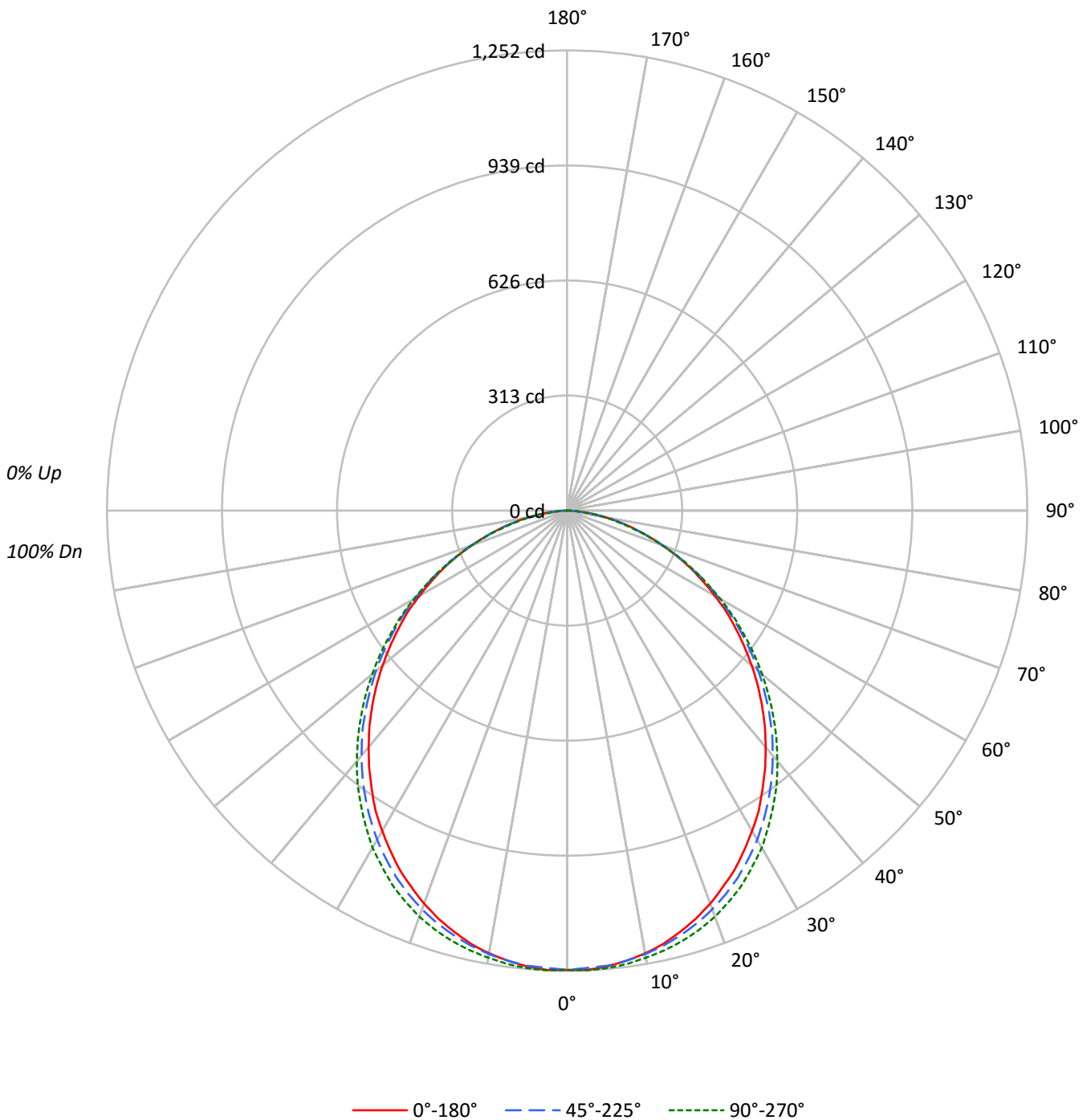
Input Watts (W): 22.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1681	1681	1681
5°	1682	1679	1688
10°	1671	1674	1688
15°	1653	1665	1688
20°	1629	1653	1683
25°	1601	1633	1670
30°	1563	1606	1646
35°	1522	1571	1607
40°	1476	1528	1563
45°	1426	1479	1510
50°	1372	1423	1448
55°	1314	1355	1376
60°	1248	1281	1296
65°	1177	1195	1202
70°	1080	1093	1080
75°	973	967	938
80°	824	815	789
85°	614	597	530



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	3.6
10°-20°	338.0	10.3
20°-30°	506.8	15.4
30°-40°	596.8	18.2
40°-50°	596.9	18.2
50°-60°	515.0	15.7
60°-70°	370.6	11.3
70°-80°	196.6	6.0
80°-90°	46.9	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°	963.1	29.3
0°-40°	1560.0	47.5
0°-60°	2671.9	81.3
0°-90°	3286.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3286.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1250	1250	1250	1250	1250	
5°	1245	1244	1243	1248	1250	118
15°	1187	1190	1196	1208	1212	335
25°	1078	1085	1100	1119	1125	496
35°	926	938	956	973	978	580
45°	749	759	777	790	794	578
55°	560	566	578	588	587	501
65°	370	371	375	378	378	366
75°	187	185	186	182	180	199
85°	40	40	39	35	34	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1249.7	1249.7	1249.7	1249.7	1249.7
2.5°	1250.8	1248.6	1245.3	1249.7	1251.9
5°	1245.3	1244.2	1243.1	1247.5	1249.7
7.5°	1235.3	1236.4	1235.3	1242.0	1244.2
10°	1223.2	1224.3	1225.4	1233.1	1235.3
12.5°	1207.7	1208.8	1212.1	1222.1	1225.4
15°	1186.6	1190.0	1195.5	1207.7	1212.1
17.5°	1164.5	1168.9	1176.7	1191.1	1195.5
20°	1137.9	1143.5	1154.5	1170.0	1175.6
22.5°	1108.0	1113.6	1129.1	1145.7	1151.2
25°	1078.2	1084.8	1100.3	1119.1	1124.6
27.5°	1042.7	1051.6	1068.2	1087.0	1091.4
30°	1006.2	1013.9	1033.9	1051.6	1059.3
32.5°	969.7	977.4	996.2	1013.9	1019.5
35°	926.5	937.6	956.4	973.0	978.5
37.5°	884.4	894.4	914.3	930.9	936.5
40°	840.2	849.0	870.0	885.5	890.0
42.5°	795.9	804.7	825.8	837.9	842.4
45°	749.4	759.4	777.1	790.3	793.7
47.5°	702.9	710.7	727.3	739.4	743.9
50°	655.3	663.1	679.7	689.6	691.8
52.5°	607.7	613.2	628.7	637.6	640.9
55°	560.1	565.6	577.8	587.8	586.7
57.5°	514.7	516.9	529.1	535.8	535.8
60°	463.8	466.0	476.0	480.4	481.5
62.5°	416.2	419.5	427.3	428.4	428.4
65°	369.7	370.8	375.3	377.5	377.5
67.5°	323.2	322.1	326.5	326.5	325.4
70°	274.5	276.7	277.8	275.6	274.5
72.5°	230.2	229.1	229.1	228.0	228.0
75°	187.1	184.9	186.0	181.5	180.4
77.5°	147.2	143.9	142.8	140.6	138.4
80°	106.3	106.3	105.2	102.9	101.8
82.5°	70.8	70.8	69.7	67.5	65.3
85°	39.8	39.8	38.7	35.4	34.3
87.5°	13.3	13.3	13.3	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)