

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: P297009

Luminaire Tested: **D3X-WG-50L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297009
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-50L83050-LD5-UNV-24-T1-W2A-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4435.0 lumens
Efficiency: N/A
Efficacy: 127.1 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

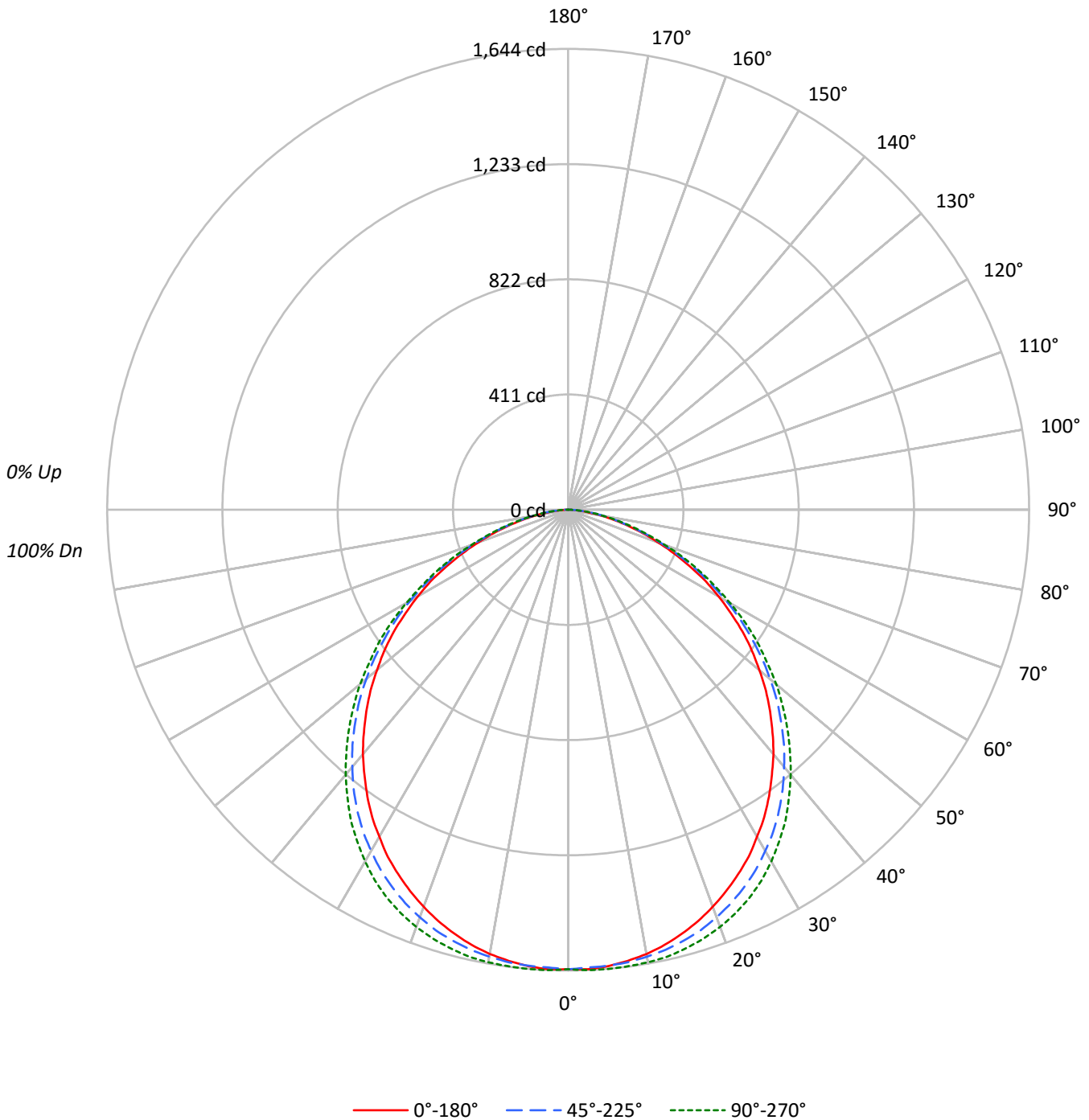
Input Watts (W): 34.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2206	2206	2206
5°	2208	2206	2221
10°	2199	2212	2240
15°	2182	2217	2257
20°	2159	2216	2268
25°	2130	2205	2269
30°	2093	2184	2251
35°	2051	2153	2221
40°	2001	2104	2168
45°	1938	2044	2104
50°	1862	1969	2029
55°	1781	1871	1930
60°	1667	1753	1795
65°	1522	1603	1644
70°	1338	1406	1444
75°	1132	1189	1231
80°	899	985	1010
85°	613	736	712



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	3.5
10°-20°	449.8	10.1
20°-30°	683.5	15.4
30°-40°	815.6	18.4
40°-50°	823.7	18.6
50°-60°	709.7	16.0
60°-70°	494.7	11.2
70°-80°	245.2	5.5
80°-90°	57.2	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°	1289.0	29.1
0°-40°	2104.6	47.5
0°-60°	3638.0	82.0
0°-90°	4435.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4435.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1640	1640	1640	1640	1640	
5°	1635	1633	1633	1641	1644	155
15°	1566	1574	1592	1612	1620	442
25°	1435	1454	1485	1516	1528	661
35°	1249	1269	1311	1341	1352	780
45°	1018	1041	1074	1099	1106	785
55°	759	775	798	817	823	677
65°	478	488	504	508	516	475
75°	218	221	229	234	237	235
85°	40	48	48	44	46	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1639.5	1639.5	1639.5	1639.5	1639.5
2.5°	1641.1	1637.9	1634.8	1641.1	1644.3
5°	1634.8	1633.2	1633.2	1641.1	1644.3
7.5°	1623.6	1623.6	1628.4	1639.5	1642.7
10°	1609.3	1612.5	1618.9	1634.8	1639.5
12.5°	1590.3	1596.6	1607.8	1626.8	1633.2
15°	1566.4	1574.4	1591.9	1612.5	1620.5
17.5°	1539.4	1550.6	1572.8	1596.6	1604.6
20°	1507.7	1522.0	1547.4	1574.4	1583.9
22.5°	1472.7	1490.2	1518.8	1547.4	1558.5
25°	1434.6	1453.6	1485.4	1515.6	1528.3
27.5°	1394.9	1413.9	1448.9	1479.1	1491.8
30°	1347.2	1369.4	1406.0	1437.8	1448.9
32.5°	1301.1	1323.4	1361.5	1390.1	1401.2
35°	1248.7	1269.4	1310.7	1340.9	1352.0
37.5°	1193.1	1216.9	1256.7	1283.7	1293.2
40°	1139.1	1159.7	1197.9	1224.9	1234.4
42.5°	1078.7	1101.0	1139.1	1162.9	1170.9
45°	1018.3	1040.6	1074.0	1099.4	1105.7
47.5°	956.4	977.0	1010.4	1031.1	1037.4
50°	889.7	908.7	940.5	961.2	969.1
52.5°	826.1	843.6	870.6	888.1	892.8
55°	759.4	775.3	797.5	816.6	822.9
57.5°	687.9	705.4	726.0	741.9	746.7
60°	619.6	633.9	651.4	665.7	667.2
62.5°	552.9	559.2	575.1	587.8	589.4
65°	478.2	487.7	503.6	508.4	516.3
67.5°	409.9	416.2	428.9	435.3	441.7
70°	340.0	344.7	357.5	365.4	367.0
72.5°	279.6	281.2	290.7	297.1	298.7
75°	217.7	220.8	228.8	233.5	236.7
77.5°	165.2	168.4	174.8	177.9	177.9
80°	116.0	120.7	127.1	128.7	130.3
82.5°	74.7	81.0	85.8	87.4	84.2
85°	39.7	47.7	47.7	44.5	46.1
87.5°	14.3	17.5	19.1	20.7	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)