

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: P296729

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296729
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-50L83050-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: 4427.0 lumens
Efficiency: N/A
Efficacy: 126.8 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

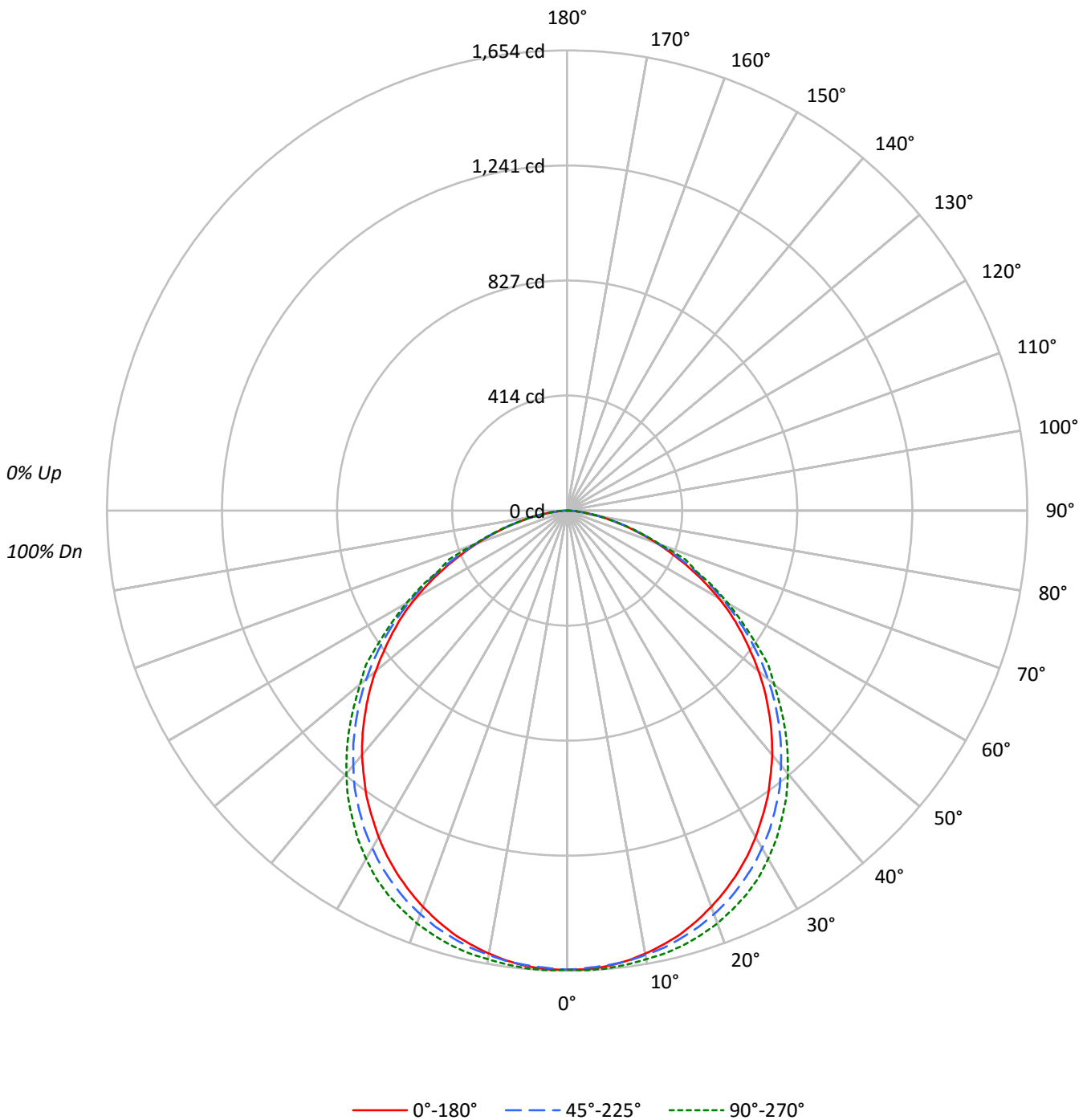
Input Watts (W): 34.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2221	2221	2221
5°	2220	2216	2231
10°	2209	2216	2237
15°	2195	2215	2252
20°	2170	2211	2261
25°	2141	2198	2261
30°	2105	2177	2246
35°	2064	2145	2213
40°	2014	2101	2168
45°	1952	2043	2107
50°	1882	1972	2031
55°	1796	1878	1934
60°	1693	1757	1799
65°	1537	1588	1618
70°	1350	1381	1400
75°	1140	1156	1164
80°	910	923	899
85°	613	638	613



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	3.5
10°-20°	449.8	10.2
20°-30°	682.4	15.4
30°-40°	814.7	18.4
40°-50°	824.8	18.6
50°-60°	713.0	16.1
60°-70°	494.2	11.2
70°-80°	239.1	5.4
80°-90°	52.6	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°	1288.6	29.1
0°-40°	2103.4	47.5
0°-60°	3641.2	82.2
0°-90°	4427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4427.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1644	1642	1641	1649	1652	156
15°	1576	1579	1590	1609	1617	444
25°	1442	1452	1480	1511	1523	664
35°	1256	1268	1306	1339	1347	785
45°	1026	1040	1074	1101	1107	791
55°	766	774	801	834	824	684
65°	483	488	499	507	508	478
75°	219	221	222	221	224	235
85°	40	43	41	40	40	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1650.4	1650.4	1650.4	1650.4	1650.4
2.5°	1650.4	1648.8	1645.6	1650.4	1653.5
5°	1644.0	1642.4	1640.8	1648.8	1651.9
7.5°	1632.9	1632.9	1634.5	1642.4	1645.6
10°	1617.0	1618.6	1621.8	1634.5	1637.6
12.5°	1597.9	1601.1	1609.1	1623.4	1629.7
15°	1575.7	1578.9	1590.0	1609.1	1617.0
17.5°	1547.1	1553.5	1569.3	1591.6	1599.5
20°	1515.3	1523.3	1543.9	1569.3	1578.9
22.5°	1480.4	1488.3	1515.3	1542.3	1551.9
25°	1442.3	1451.8	1480.4	1510.6	1523.3
27.5°	1401.0	1412.1	1443.9	1475.6	1488.3
30°	1354.9	1367.6	1401.0	1434.3	1445.4
32.5°	1305.7	1318.4	1356.5	1388.3	1399.4
35°	1256.4	1267.5	1305.7	1339.0	1347.0
37.5°	1200.8	1213.5	1254.8	1283.4	1294.6
40°	1146.8	1159.5	1196.1	1224.7	1234.2
42.5°	1088.1	1100.8	1137.3	1164.3	1172.2
45°	1026.1	1040.4	1073.8	1100.8	1107.1
47.5°	964.2	975.3	1010.2	1034.1	1038.8
50°	899.0	910.2	941.9	965.8	970.5
52.5°	830.7	848.2	873.6	891.1	911.7
55°	765.6	773.6	800.6	833.9	824.4
57.5°	700.5	705.3	727.5	741.8	745.0
60°	629.0	635.4	652.8	660.8	668.7
62.5°	554.4	559.1	579.8	587.7	590.9
65°	482.9	487.6	498.8	506.7	508.3
67.5°	409.8	414.6	424.1	430.5	459.0
70°	343.1	346.3	351.0	363.7	355.8
72.5°	279.6	281.1	285.9	285.9	287.5
75°	219.2	220.8	222.4	220.8	224.0
77.5°	163.6	166.8	168.4	166.8	165.2
80°	117.5	120.7	119.1	116.0	116.0
82.5°	76.2	77.8	76.2	74.7	74.7
85°	39.7	42.9	41.3	39.7	39.7
87.5°	14.3	15.9	17.5	19.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)