

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: P296875

Luminaire Tested: **D3X-WD-55L93050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296875
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-55L93050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4428.0 lumens
Efficiency: N/A
Efficacy: 113.2 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

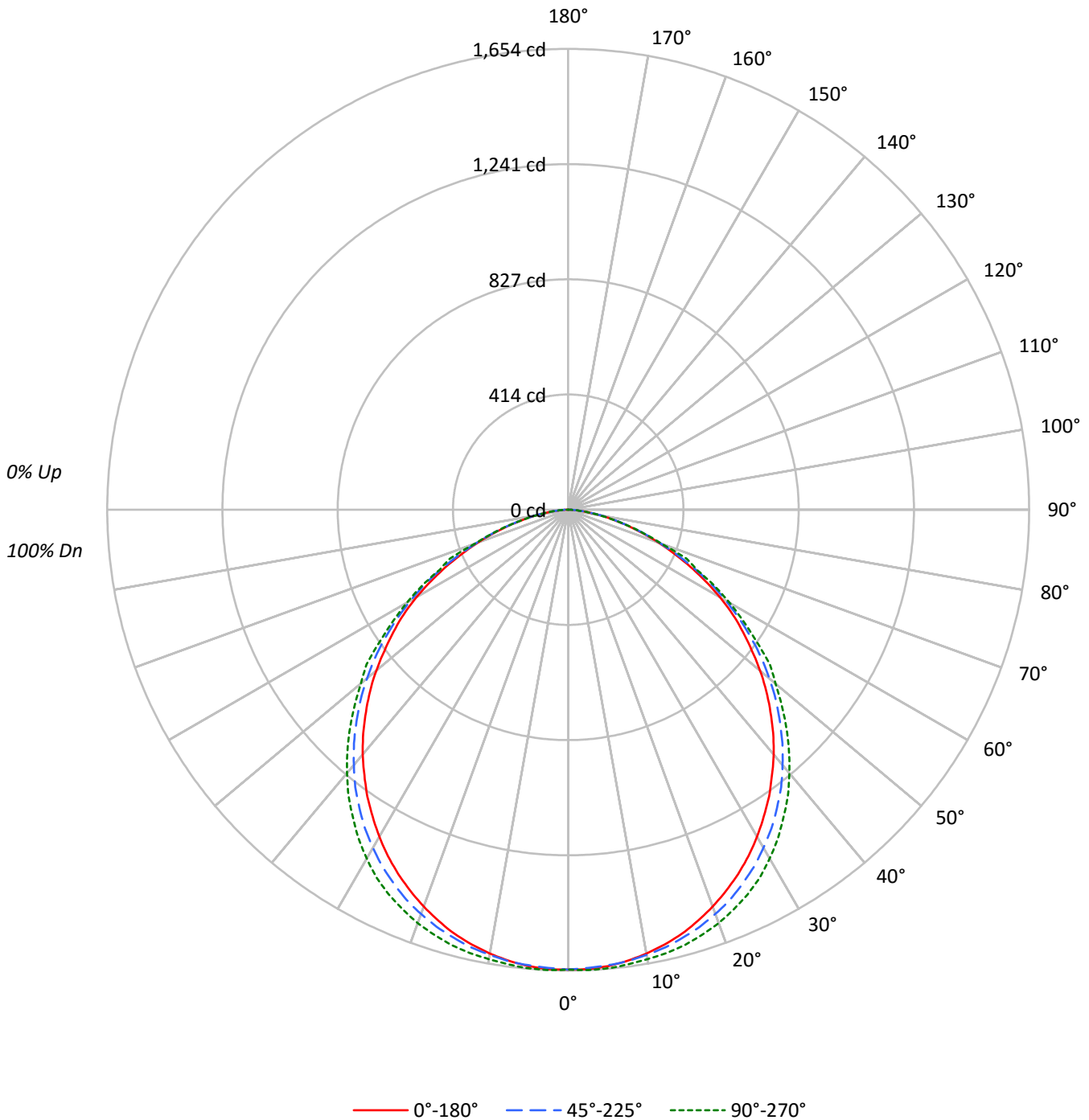
Input Watts (W): 39.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2221	2217	2232
10°	2210	2216	2238
15°	2195	2215	2253
20°	2170	2211	2261
25°	2142	2198	2262
30°	2105	2177	2246
35°	2064	2145	2213
40°	2015	2101	2168
45°	1953	2044	2107
50°	1882	1972	2032
55°	1796	1878	1934
60°	1693	1757	1800
65°	1538	1588	1619
70°	1350	1381	1400
75°	1140	1156	1164
80°	911	924	899
85°	613	638	613



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	3.5
10°-20°	449.9	10.2
20°-30°	682.6	15.4
30°-40°	814.9	18.4
40°-50°	825.0	18.6
50°-60°	713.1	16.1
60°-70°	494.3	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°	1288.9	29.1
0°-40°	2103.8	47.5
0°-60°	3642.0	82.2
0°-90°	4428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4428.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1651	1651	1651	1651	1651	
5°	1644	1643	1641	1649	1652	156
15°	1576	1579	1590	1609	1617	444
25°	1443	1452	1481	1511	1524	664
35°	1257	1268	1306	1339	1347	785
45°	1026	1041	1074	1101	1107	792
55°	766	774	801	834	825	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°	1650.7	1650.7	1650.7	1650.7	1650.7
2.5°	1650.7	1649.1	1646.0	1650.7	1653.9
5°	1644.4	1642.8	1641.2	1649.1	1652.3
7.5°	1633.3	1633.3	1634.8	1642.8	1646.0
10°	1617.4	1619.0	1622.1	1634.8	1638.0
12.5°	1598.3	1601.5	1609.4	1623.7	1630.1
15°	1576.1	1579.2	1590.4	1609.4	1617.4
17.5°	1547.5	1553.8	1569.7	1591.9	1599.9
20°	1515.7	1523.6	1544.3	1569.7	1579.2
22.5°	1480.7	1488.7	1515.7	1542.7	1552.2
25°	1442.6	1452.1	1480.7	1510.9	1523.6
27.5°	1401.3	1412.4	1444.2	1476.0	1488.7
30°	1355.2	1367.9	1401.3	1434.7	1445.8
32.5°	1306.0	1318.7	1356.8	1388.6	1399.7
35°	1256.7	1267.8	1306.0	1339.3	1347.3
37.5°	1201.1	1213.8	1255.1	1283.7	1294.8
40°	1147.1	1159.8	1196.3	1224.9	1234.5
42.5°	1088.3	1101.0	1137.6	1164.6	1172.5
45°	1026.3	1040.6	1074.0	1101.0	1107.4
47.5°	964.4	975.5	1010.5	1034.3	1039.1
50°	899.2	910.4	942.1	966.0	970.7
52.5°	830.9	848.4	873.8	891.3	912.0
55°	765.8	773.7	800.7	834.1	824.6
57.5°	700.6	705.4	727.7	742.0	745.1
60°	629.2	635.5	653.0	660.9	668.9
62.5°	554.5	559.2	579.9	587.8	591.0
65°	483.0	487.8	498.9	506.8	508.4
67.5°	409.9	414.7	424.2	430.6	459.2
70°	343.2	346.4	351.1	363.8	355.9
72.5°	279.6	281.2	286.0	286.0	287.6
75°	219.2	220.8	222.4	220.8	224.0
77.5°	163.6	166.8	168.4	166.8	165.2
80°	117.6	120.7	119.2	116.0	116.0
82.5°	76.3	77.8	76.3	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)