

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: P296790

Luminaire Tested: **D3X-WD-45L82765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296790
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-45L82765-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4336.0 lumens
Efficiency: N/A
Efficacy: 135.1 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

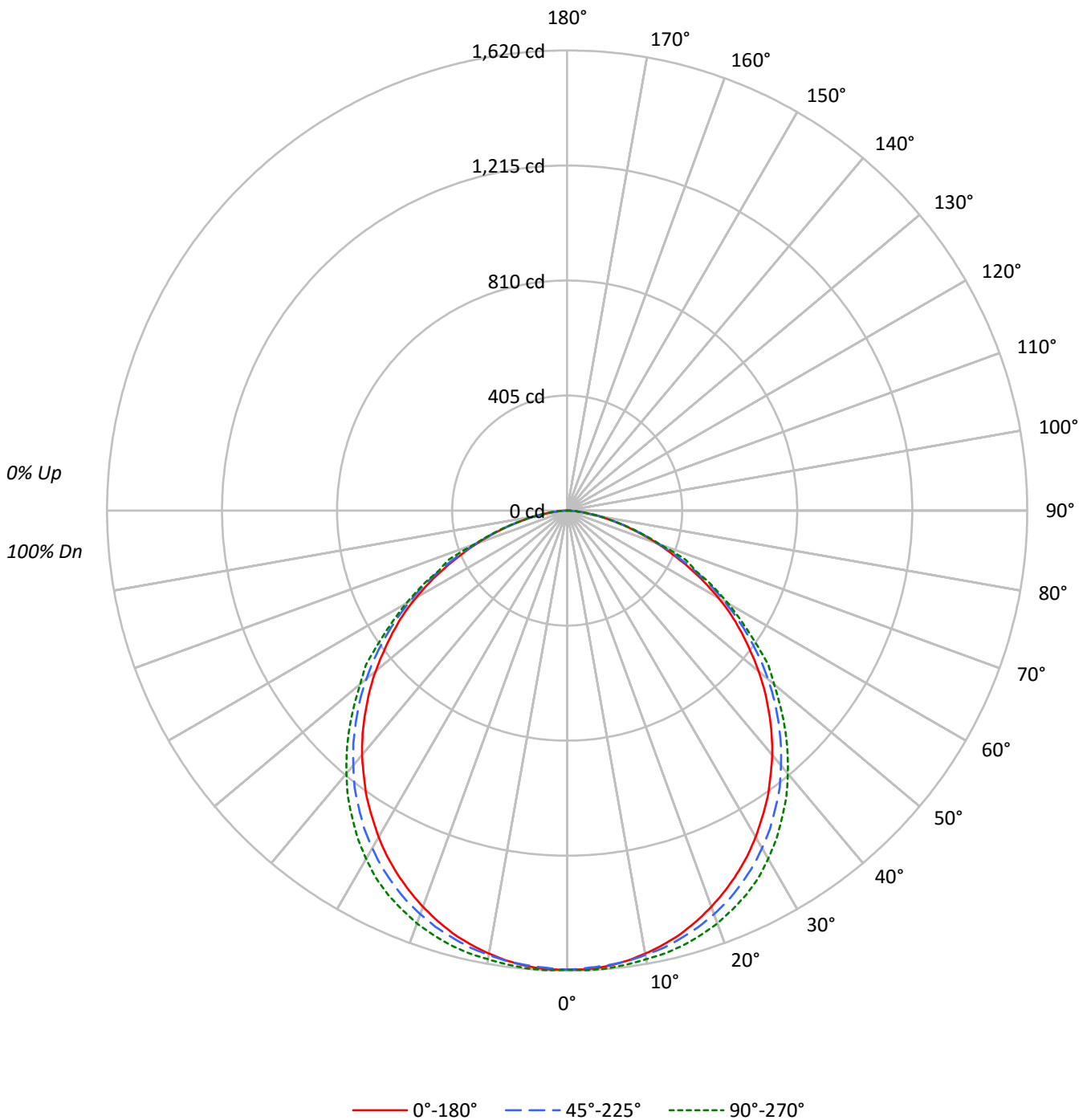
Input Watts (W): 32.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2175	2175	2175
5°	2175	2171	2185
10°	2164	2170	2191
15°	2150	2169	2206
20°	2125	2165	2214
25°	2097	2153	2215
30°	2062	2132	2199
35°	2021	2100	2167
40°	1973	2058	2123
45°	1912	2001	2063
50°	1843	1931	1990
55°	1759	1839	1894
60°	1658	1721	1763
65°	1506	1555	1585
70°	1322	1352	1371
75°	1116	1132	1141
80°	892	904	880
85°	601	624	601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.2	3.5
10°-20°	440.5	10.2
20°-30°	668.4	15.4
30°-40°	798.0	18.4
40°-50°	807.9	18.6
50°-60°	698.3	16.1
60°-70°	484.0	11.2
70°-80°	234.2	5.4
80°-90°	51.5	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°	1262.1	29.1
0°-40°	2060.1	47.5
0°-60°	3566.3	82.2
0°-90°	4336.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4336.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1616	1616	1616	1616	1616	
5°	1610	1609	1607	1615	1618	153
15°	1543	1546	1557	1576	1584	435
25°	1413	1422	1450	1480	1492	651
35°	1231	1242	1279	1312	1319	769
45°	1005	1019	1052	1078	1084	775
55°	750	758	784	817	807	670
65°	473	478	488	496	498	468
75°	215	216	218	216	219	230
85°	39	42	40	39	39	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1616.4	1616.4	1616.4	1616.4	1616.4
2.5°	1616.4	1614.9	1611.8	1616.4	1619.5
5°	1610.2	1608.7	1607.1	1614.9	1618.0
7.5°	1599.3	1599.3	1600.9	1608.7	1611.8
10°	1583.8	1585.3	1588.4	1600.9	1604.0
12.5°	1565.1	1568.2	1576.0	1590.0	1596.2
15°	1543.3	1546.4	1557.3	1576.0	1583.8
17.5°	1515.3	1521.5	1537.1	1558.9	1566.6
20°	1484.2	1492.0	1512.2	1537.1	1546.4
22.5°	1450.0	1457.7	1484.2	1510.6	1520.0
25°	1412.6	1422.0	1450.0	1479.5	1492.0
27.5°	1372.2	1383.1	1414.2	1445.3	1457.7
30°	1327.1	1339.5	1372.2	1404.8	1415.7
32.5°	1278.8	1291.3	1328.6	1359.7	1370.6
35°	1230.6	1241.5	1278.8	1311.5	1319.3
37.5°	1176.2	1188.6	1229.0	1257.1	1267.9
40°	1123.3	1135.7	1171.5	1199.5	1208.8
42.5°	1065.7	1078.1	1113.9	1140.4	1148.1
45°	1005.0	1019.0	1051.7	1078.1	1084.4
47.5°	944.3	955.2	989.5	1012.8	1017.5
50°	880.6	891.4	922.6	945.9	950.6
52.5°	813.7	830.8	855.7	872.8	893.0
55°	749.9	757.7	784.1	816.8	807.4
57.5°	686.1	690.8	712.5	726.5	729.6
60°	616.1	622.3	639.4	647.2	655.0
62.5°	543.0	547.6	567.9	575.6	578.7
65°	472.9	477.6	488.5	496.3	497.8
67.5°	401.4	406.1	415.4	421.6	449.6
70°	336.0	339.2	343.8	356.3	348.5
72.5°	273.8	275.4	280.0	280.0	281.6
75°	214.7	216.2	217.8	216.2	219.4
77.5°	160.2	163.4	164.9	163.4	161.8
80°	115.1	118.2	116.7	113.6	113.6
82.5°	74.7	76.2	74.7	73.1	73.1
85°	38.9	42.0	40.4	38.9	38.9
87.5°	14.0	15.6	17.1	18.7	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)