

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: P297282

Luminaire Tested: **D3X-WO-42L83050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297282
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-42L83050-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: 4467.0 lumens
Efficiency: N/A
Efficacy: 146.5 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

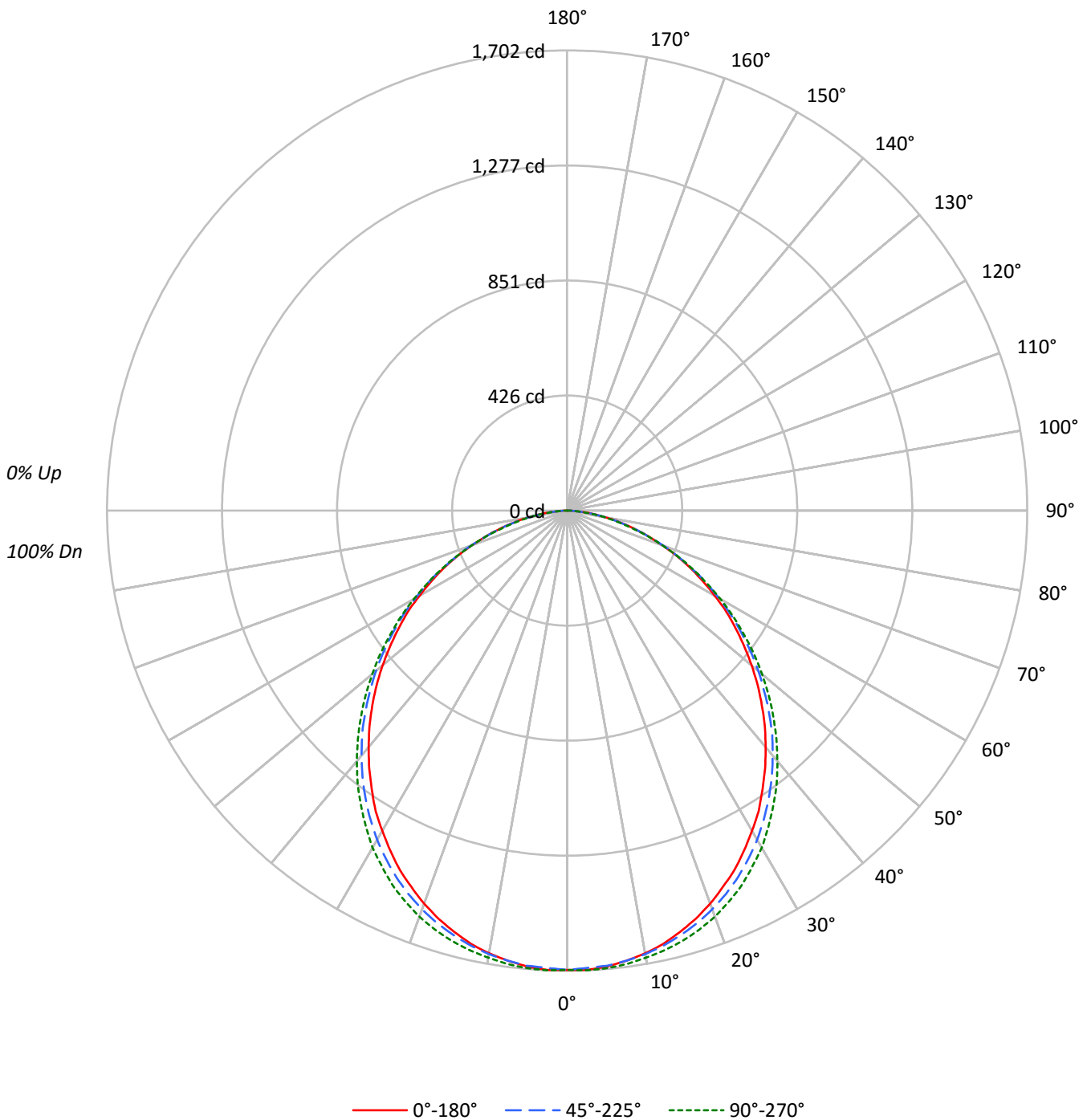
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2286	2286	2286
5°	2286	2282	2295
10°	2272	2276	2294
15°	2247	2264	2295
20°	2215	2247	2288
25°	2176	2220	2270
30°	2125	2184	2237
35°	2069	2135	2185
40°	2006	2077	2125
45°	1938	2010	2053
50°	1865	1934	1969
55°	1786	1843	1871
60°	1697	1741	1762
65°	1600	1624	1634
70°	1468	1486	1468
75°	1322	1314	1275
80°	1120	1108	1072
85°	837	814	719



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.9	3.6
10°-20°	459.5	10.3
20°-30°	688.9	15.4
30°-40°	811.3	18.2
40°-50°	811.5	18.2
50°-60°	700.1	15.7
60°-70°	503.8	11.3
70°-80°	267.2	6.0
80°-90°	63.8	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°	1309.3	29.3
0°-40°	2120.6	47.5
0°-60°	3632.2	81.3
0°-90°	4467.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4467.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1699	1699	1699	1699	1699	
5°	1693	1691	1690	1696	1699	161
15°	1613	1618	1625	1642	1648	455
25°	1466	1475	1496	1521	1529	674
35°	1260	1274	1300	1323	1330	788
45°	1019	1032	1056	1074	1079	786
55°	761	769	786	799	798	681
65°	503	504	510	513	513	497
75°	254	251	253	247	245	271
85°	54	54	53	48	47	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1698.9	1698.9	1698.9	1698.9	1698.9
2.5°	1700.4	1697.4	1692.9	1698.9	1701.9
5°	1692.9	1691.4	1689.9	1695.9	1698.9
7.5°	1679.3	1680.8	1679.3	1688.3	1691.4
10°	1662.8	1664.3	1665.8	1676.3	1679.3
12.5°	1641.7	1643.2	1647.7	1661.3	1665.8
15°	1613.1	1617.6	1625.1	1641.7	1647.7
17.5°	1583.0	1589.0	1599.6	1619.1	1625.1
20°	1546.9	1554.4	1569.5	1590.5	1598.1
22.5°	1506.3	1513.8	1534.9	1557.4	1565.0
25°	1465.6	1474.7	1495.7	1521.3	1528.8
27.5°	1417.5	1429.5	1452.1	1477.7	1483.7
30°	1367.8	1378.4	1405.5	1429.5	1440.1
32.5°	1318.2	1328.7	1354.3	1378.4	1385.9
35°	1259.5	1274.5	1300.1	1322.7	1330.2
37.5°	1202.3	1215.9	1242.9	1265.5	1273.0
40°	1142.1	1154.2	1182.7	1203.8	1209.8
42.5°	1081.9	1094.0	1122.6	1139.1	1145.1
45°	1018.7	1032.3	1056.3	1074.4	1078.9
47.5°	955.5	966.1	988.6	1005.2	1011.2
50°	890.8	901.4	923.9	937.5	940.5
52.5°	826.1	833.6	854.7	866.7	871.3
55°	761.4	768.9	785.5	799.0	797.5
57.5°	699.7	702.7	719.3	728.3	728.3
60°	630.5	633.5	647.1	653.1	654.6
62.5°	565.8	570.3	580.8	582.3	582.3
65°	502.6	504.1	510.1	513.1	513.1
67.5°	439.4	437.9	443.9	443.9	442.4
70°	373.2	376.2	377.7	374.7	373.2
72.5°	313.0	311.5	311.5	310.0	310.0
75°	254.3	251.3	252.8	246.8	245.3
77.5°	200.1	195.6	194.1	191.1	188.1
80°	144.5	144.5	143.0	139.9	138.4
82.5°	96.3	96.3	94.8	91.8	88.8
85°	54.2	54.2	52.7	48.2	46.6
87.5°	18.1	18.1	18.1	18.1	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)