

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: P296862

Luminaire Tested: **D3X-WD-42L93050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296862
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-42L93050-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3695.0 lumens
Efficiency: N/A
Efficacy: 121.9 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

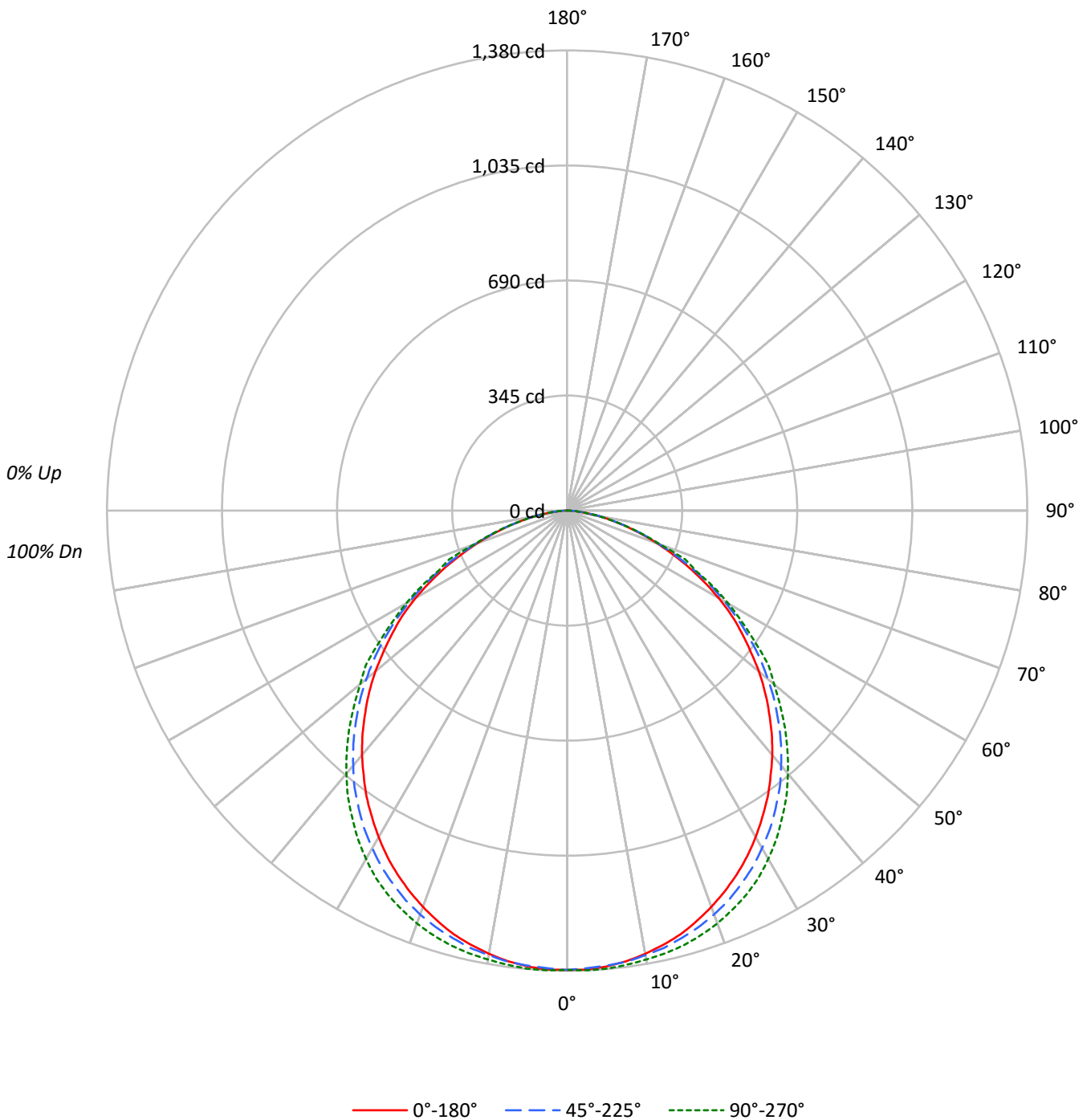
Input Watts (W): 30.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1853	1853	1853
5°	1853	1850	1862
10°	1844	1849	1868
15°	1832	1849	1880
20°	1811	1845	1887
25°	1787	1834	1887
30°	1757	1817	1874
35°	1723	1790	1847
40°	1681	1753	1809
45°	1630	1705	1758
50°	1571	1646	1696
55°	1499	1567	1614
60°	1413	1466	1502
65°	1283	1325	1351
70°	1127	1153	1168
75°	951	965	972
80°	760	770	750
85°	511	533	511



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.5	3.5
10°-20°	375.4	10.2
20°-30°	569.6	15.4
30°-40°	680.0	18.4
40°-50°	688.5	18.6
50°-60°	595.1	16.1
60°-70°	412.4	11.2
70°-80°	199.6	5.4
80°-90°	43.9	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°	1075.5	29.1
0°-40°	1755.6	47.5
0°-60°	3039.1	82.2
0°-90°	3695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1378	1378	1378	1378	1378	
5°	1372	1371	1370	1376	1379	130
15°	1315	1318	1327	1343	1350	371
25°	1204	1212	1236	1261	1271	554
35°	1049	1058	1090	1118	1124	655
45°	856	868	896	919	924	661
55°	639	646	668	696	688	571
65°	403	407	416	423	424	399
75°	183	184	186	184	187	196
85°	33	36	34	33	33	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1377.5	1377.5	1377.5	1377.5	1377.5
2.5°	1377.5	1376.1	1373.5	1377.5	1380.1
5°	1372.2	1370.8	1369.5	1376.1	1378.8
7.5°	1362.9	1362.9	1364.2	1370.8	1373.5
10°	1349.6	1351.0	1353.6	1364.2	1366.9
12.5°	1333.7	1336.4	1343.0	1354.9	1360.2
15°	1315.2	1317.8	1327.1	1343.0	1349.6
17.5°	1291.3	1296.6	1309.9	1328.4	1335.0
20°	1264.8	1271.4	1288.6	1309.9	1317.8
22.5°	1235.6	1242.2	1264.8	1287.3	1295.3
25°	1203.8	1211.7	1235.6	1260.8	1271.4
27.5°	1169.3	1178.6	1205.1	1231.6	1242.2
30°	1130.9	1141.5	1169.3	1197.2	1206.4
32.5°	1089.8	1100.4	1132.2	1158.7	1168.0
35°	1048.7	1058.0	1089.8	1117.6	1124.2
37.5°	1002.3	1012.9	1047.4	1071.2	1080.5
40°	957.2	967.8	998.3	1022.2	1030.1
42.5°	908.1	918.8	949.2	971.8	978.4
45°	856.4	868.4	896.2	918.8	924.1
47.5°	804.7	814.0	843.2	863.1	867.1
50°	750.4	759.7	786.2	806.1	810.0
52.5°	693.4	708.0	729.2	743.8	761.0
55°	639.0	645.6	668.2	696.0	688.1
57.5°	584.7	588.6	607.2	619.1	621.8
60°	525.0	530.3	544.9	551.5	558.1
62.5°	462.7	466.7	483.9	490.5	493.2
65°	403.0	407.0	416.3	422.9	424.2
67.5°	342.0	346.0	354.0	359.3	383.1
70°	286.4	289.0	293.0	303.6	297.0
72.5°	233.3	234.7	238.6	238.6	240.0
75°	183.0	184.3	185.6	184.3	186.9
77.5°	136.6	139.2	140.5	139.2	137.9
80°	98.1	100.8	99.4	96.8	96.8
82.5°	63.6	65.0	63.6	62.3	62.3
85°	33.1	35.8	34.5	33.1	33.1
87.5°	11.9	13.3	14.6	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)