

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: P296782

Luminaire Tested: **D3X-WD-42L82765-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296782
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-42L82765-LD5-UNV-24-T1-W2A-5000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4073.0 lumens
Efficiency: N/A
Efficacy: 136.7 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

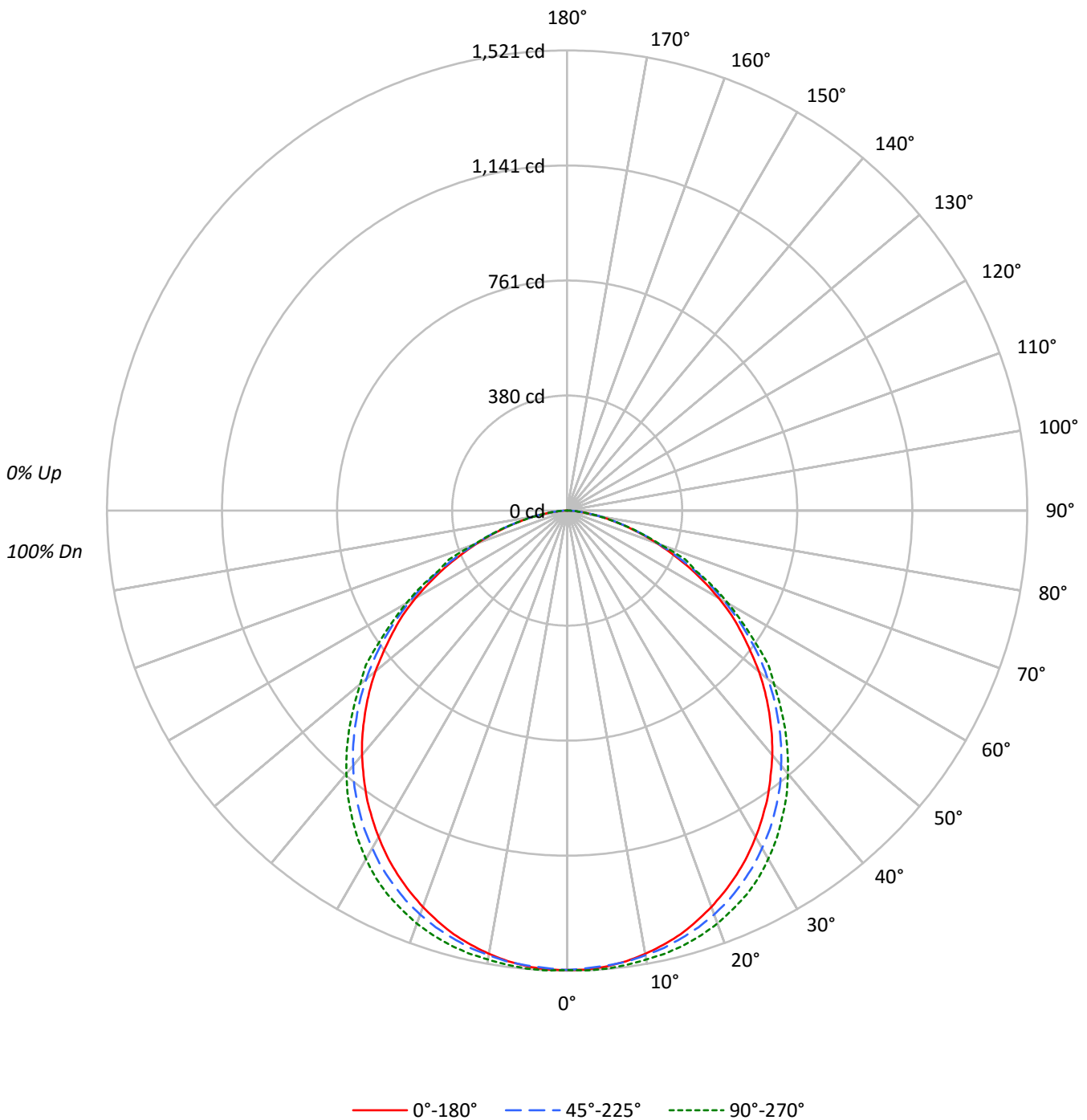
Input Watts (W): 29.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2043	2043	2043
5°	2043	2039	2053
10°	2033	2039	2059
15°	2019	2038	2072
20°	1996	2034	2080
25°	1970	2022	2081
30°	1937	2002	2066
35°	1899	1973	2036
40°	1853	1933	1994
45°	1796	1880	1938
50°	1731	1814	1869
55°	1652	1728	1779
60°	1557	1616	1655
65°	1415	1461	1489
70°	1242	1271	1288
75°	1049	1064	1071
80°	838	849	827
85°	563	587	563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.9	3.5
10°-20°	413.8	10.2
20°-30°	627.9	15.4
30°-40°	749.6	18.4
40°-50°	758.9	18.6
50°-60°	656.0	16.1
60°-70°	454.6	11.2
70°-80°	220.0	5.4
80°-90°	48.4	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°	1185.6	29.1
0°-40°	1935.2	47.5
0°-60°	3350.0	82.2
0°-90°	4073.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4073.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1518	1518	1518	1518	1518	
5°	1512	1511	1510	1517	1520	144
15°	1450	1453	1463	1480	1488	409
25°	1327	1336	1362	1390	1402	611
35°	1156	1166	1201	1232	1239	722
45°	944	957	988	1013	1019	728
55°	704	712	736	767	758	630
65°	444	449	459	466	468	440
75°	202	203	205	203	206	216
85°	36	40	38	36	36	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1518.4	1518.4	1518.4	1518.4	1518.4
2.5°	1518.4	1516.9	1514.0	1518.4	1521.3
5°	1512.5	1511.1	1509.6	1516.9	1519.8
7.5°	1502.3	1502.3	1503.8	1511.1	1514.0
10°	1487.7	1489.2	1492.1	1503.8	1506.7
12.5°	1470.2	1473.1	1480.4	1493.5	1499.4
15°	1449.7	1452.6	1462.9	1480.4	1487.7
17.5°	1423.4	1429.2	1443.9	1464.3	1471.6
20°	1394.2	1401.5	1420.5	1443.9	1452.6
22.5°	1362.0	1369.3	1394.2	1419.0	1427.8
25°	1326.9	1335.7	1362.0	1389.8	1401.5
27.5°	1288.9	1299.2	1328.4	1357.6	1369.3
30°	1246.6	1258.3	1288.9	1319.6	1329.9
32.5°	1201.3	1213.0	1248.0	1277.3	1287.5
35°	1156.0	1166.2	1201.3	1232.0	1239.3
37.5°	1104.8	1116.5	1154.5	1180.8	1191.0
40°	1055.1	1066.8	1100.4	1126.7	1135.5
42.5°	1001.1	1012.7	1046.4	1071.2	1078.5
45°	944.1	957.2	987.9	1012.7	1018.6
47.5°	887.1	897.3	929.4	951.4	955.7
50°	827.1	837.4	866.6	888.5	892.9
52.5°	764.3	780.4	803.8	819.8	838.8
55°	704.4	711.7	736.5	767.2	758.5
57.5°	644.5	648.9	669.3	682.5	685.4
60°	578.7	584.6	600.6	607.9	615.2
62.5°	510.0	514.4	533.4	540.7	543.6
65°	444.3	448.6	458.9	466.2	467.6
67.5°	377.0	381.4	390.2	396.0	422.3
70°	315.7	318.6	323.0	334.7	327.4
72.5°	257.2	258.7	263.1	263.1	264.5
75°	201.7	203.1	204.6	203.1	206.1
77.5°	150.5	153.4	154.9	153.4	152.0
80°	108.1	111.1	109.6	106.7	106.7
82.5°	70.1	71.6	70.1	68.7	68.7
85°	36.5	39.5	38.0	36.5	36.5
87.5°	13.2	14.6	16.1	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)