

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: P296777

Luminaire Tested: **D3X-WD-42L82765-LD5-UNV-24-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296777
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-2700K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3630.0 lumens
Efficiency: N/A
Efficacy: 124.7 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

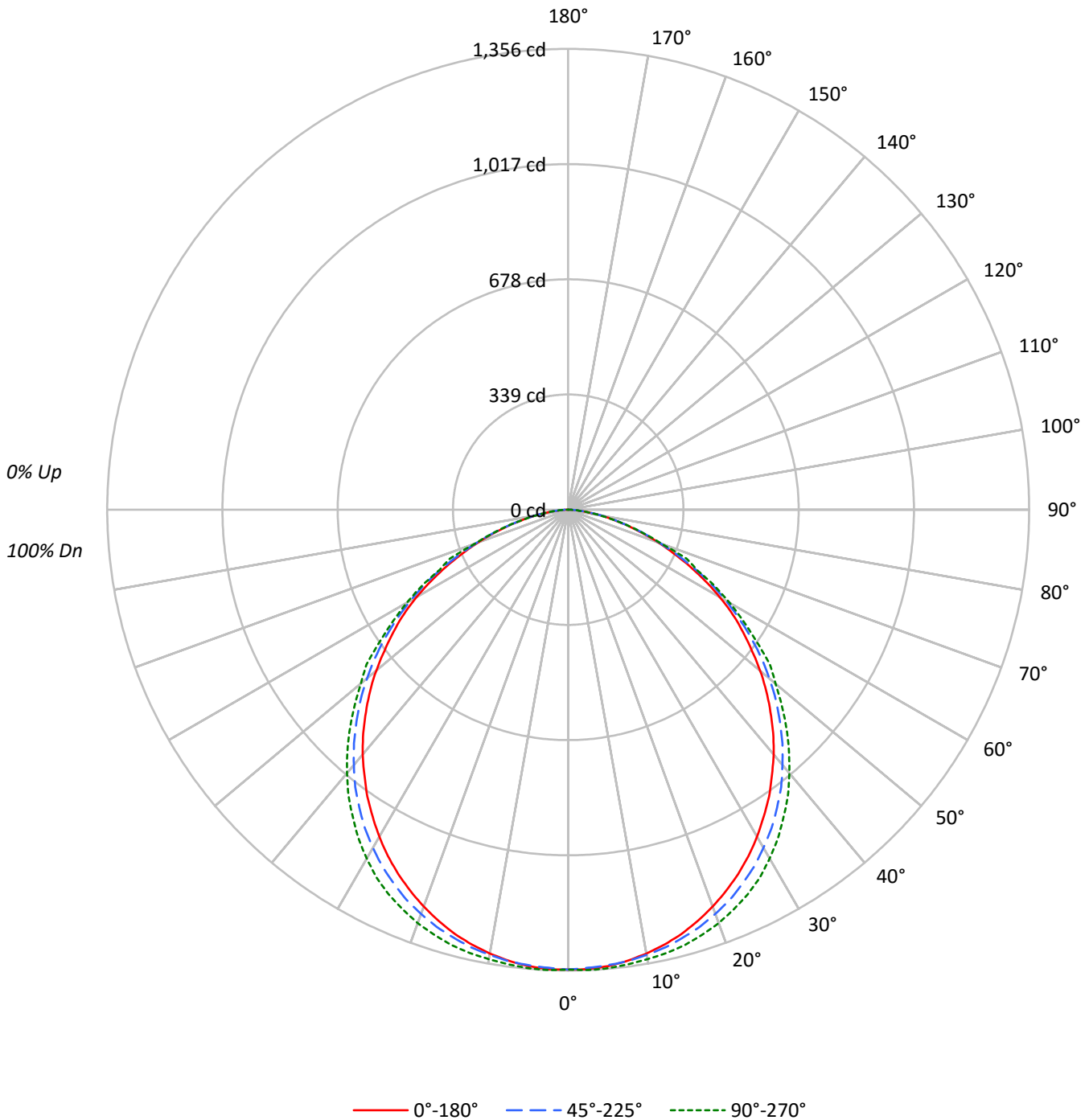
Input Watts (W): 29.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1821	1821	1821
5°	1821	1817	1829
10°	1812	1817	1835
15°	1800	1816	1847
20°	1779	1813	1854
25°	1756	1802	1854
30°	1726	1785	1841
35°	1692	1759	1814
40°	1652	1723	1777
45°	1601	1675	1727
50°	1543	1617	1666
55°	1473	1540	1586
60°	1388	1440	1475
65°	1260	1302	1327
70°	1107	1132	1148
75°	934	948	954
80°	747	757	737
85°	503	523	503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	3.5
10°-20°	368.8	10.2
20°-30°	559.6	15.4
30°-40°	668.1	18.4
40°-50°	676.3	18.6
50°-60°	584.6	16.1
60°-70°	405.2	11.2
70°-80°	196.0	5.4
80°-90°	43.1	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°	1056.6	29.1
0°-40°	1724.7	47.5
0°-60°	2985.7	82.2
0°-90°	3630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1353	1353	1353	1353	1353	
5°	1348	1347	1345	1352	1354	128
15°	1292	1295	1304	1319	1326	364
25°	1183	1190	1214	1239	1249	545
35°	1030	1039	1071	1098	1104	644
45°	841	853	880	903	908	649
55°	628	634	656	684	676	561
65°	396	400	409	416	417	392
75°	180	181	182	181	184	193
85°	33	35	34	33	33	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1353.2	1351.9	1349.3	1353.2	1355.8
5°	1348.0	1346.7	1345.4	1351.9	1354.5
7.5°	1338.9	1338.9	1340.2	1346.7	1349.3
10°	1325.9	1327.2	1329.8	1340.2	1342.8
12.5°	1310.3	1312.9	1319.4	1331.1	1336.3
15°	1292.0	1294.6	1303.7	1319.4	1325.9
17.5°	1268.6	1273.8	1286.8	1305.0	1311.6
20°	1242.5	1249.0	1266.0	1286.8	1294.6
22.5°	1213.9	1220.4	1242.5	1264.7	1272.5
25°	1182.6	1190.4	1213.9	1238.6	1249.0
27.5°	1148.8	1157.9	1183.9	1210.0	1220.4
30°	1111.0	1121.4	1148.8	1176.1	1185.2
32.5°	1070.6	1081.0	1112.3	1138.3	1147.5
35°	1030.2	1039.3	1070.6	1098.0	1104.5
37.5°	984.6	995.1	1028.9	1052.4	1061.5
40°	940.4	950.8	980.7	1004.2	1012.0
42.5°	892.2	902.6	932.5	954.7	961.2
45°	841.4	853.1	880.5	902.6	907.8
47.5°	790.6	799.7	828.4	847.9	851.8
50°	737.2	746.3	772.3	791.9	795.8
52.5°	681.2	695.5	716.3	730.7	747.6
55°	627.8	634.3	656.4	683.8	676.0
57.5°	574.4	578.3	596.5	608.2	610.8
60°	515.8	521.0	535.3	541.8	548.3
62.5°	454.6	458.5	475.4	481.9	484.5
65°	395.9	399.8	409.0	415.5	416.8
67.5°	336.0	339.9	347.8	353.0	376.4
70°	281.3	283.9	287.8	298.3	291.7
72.5°	229.2	230.5	234.4	234.4	235.7
75°	179.7	181.0	182.3	181.0	183.6
77.5°	134.2	136.8	138.1	136.8	135.5
80°	96.4	99.0	97.7	95.1	95.1
82.5°	62.5	63.8	62.5	61.2	61.2
85°	32.6	35.2	33.9	32.6	32.6
87.5°	11.7	13.0	14.3	15.6	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)