

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: P297202

Luminaire Tested: **D3X-WG-42L92765-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-42L92765-LD5-UNV-24-T1-W2A-5000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3663.0 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

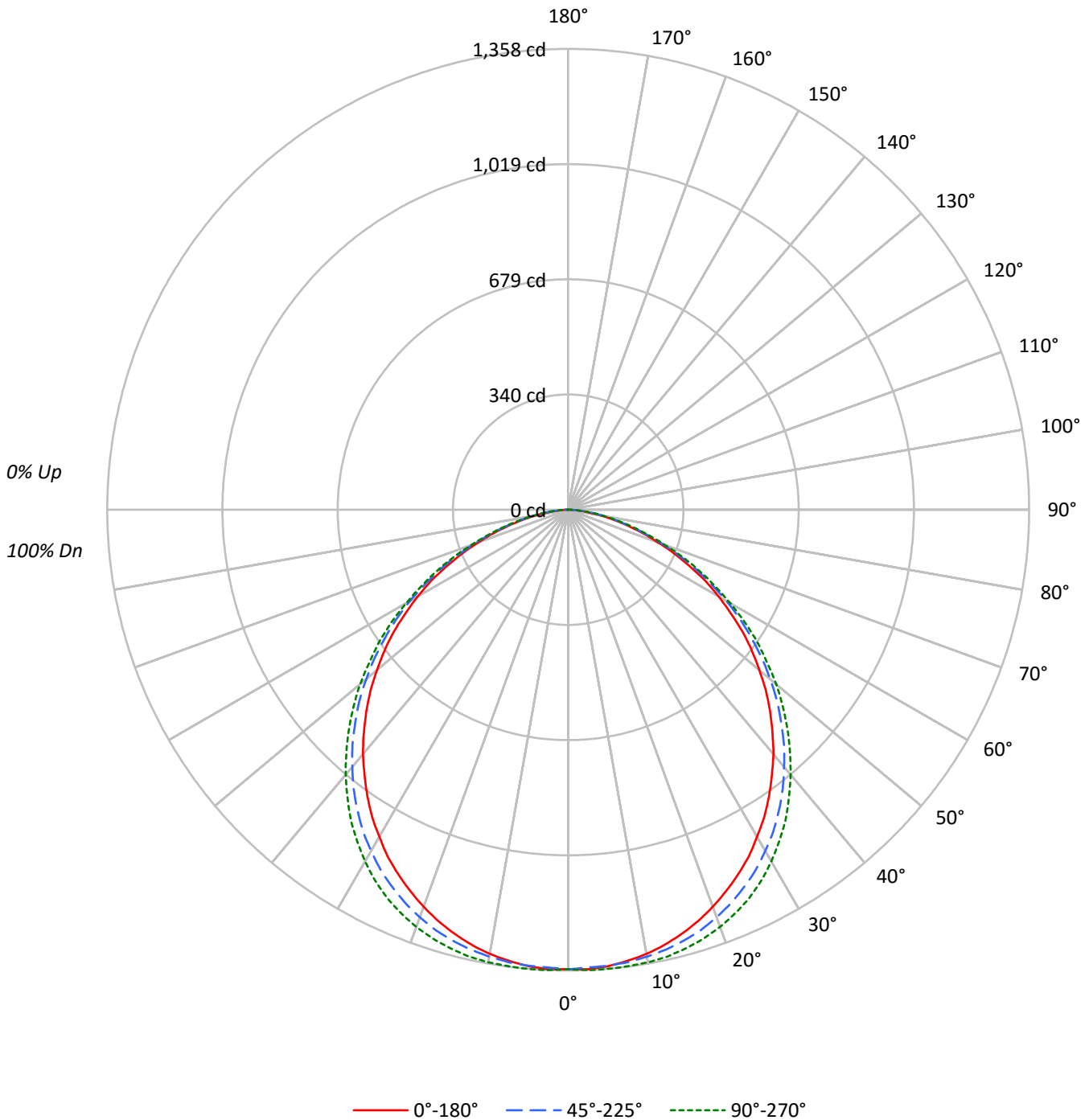
Input Watts (W): 29.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
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	47	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	27	38	32	27	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1822	1822	1822
5°	1824	1822	1834
10°	1816	1827	1850
15°	1802	1831	1864
20°	1783	1830	1873
25°	1759	1821	1874
30°	1729	1804	1859
35°	1694	1778	1834
40°	1652	1738	1791
45°	1600	1688	1738
50°	1538	1626	1675
55°	1471	1545	1594
60°	1377	1448	1483
65°	1258	1324	1358
70°	1105	1161	1192
75°	935	982	1016
80°	742	814	834
85°	506	608	588



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	3.5
10°-20°	371.5	10.1
20°-30°	564.5	15.4
30°-40°	673.6	18.4
40°-50°	680.3	18.6
50°-60°	586.1	16.0
60°-70°	408.6	11.2
70°-80°	202.5	5.5
80°-90°	47.2	1.3
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°	1064.6	29.1
0°-40°	1738.2	47.5
0°-60°	3004.7	82.0
0°-90°	3663.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3663.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1354	1354	1354	1354	1354	
5°	1350	1349	1349	1355	1358	128
15°	1294	1300	1315	1332	1338	365
25°	1185	1201	1227	1252	1262	546
35°	1031	1048	1082	1108	1117	645
45°	841	860	887	908	913	648
55°	627	640	659	674	680	559
65°	395	403	416	420	426	392
75°	180	182	189	193	196	194
85°	33	39	39	37	38	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1354.1	1354.1	1354.1	1354.1	1354.1
2.5°	1355.4	1352.8	1350.2	1355.4	1358.1
5°	1350.2	1348.9	1348.9	1355.4	1358.1
7.5°	1341.0	1341.0	1344.9	1354.1	1356.8
10°	1329.2	1331.8	1337.1	1350.2	1354.1
12.5°	1313.5	1318.7	1327.9	1343.6	1348.9
15°	1293.8	1300.3	1314.8	1331.8	1338.4
17.5°	1271.5	1280.7	1299.0	1318.7	1325.3
20°	1245.2	1257.0	1278.0	1300.3	1308.2
22.5°	1216.4	1230.8	1254.4	1278.0	1287.2
25°	1184.9	1200.6	1226.9	1251.8	1262.3
27.5°	1152.1	1167.8	1196.7	1221.6	1232.1
30°	1112.7	1131.1	1161.2	1187.5	1196.7
32.5°	1074.6	1093.0	1124.5	1148.1	1157.3
35°	1031.3	1048.4	1082.5	1107.5	1116.6
37.5°	985.4	1005.1	1037.9	1060.2	1068.1
40°	940.8	957.9	989.4	1011.7	1019.5
42.5°	890.9	909.3	940.8	960.5	967.1
45°	841.1	859.5	887.0	908.0	913.3
47.5°	789.9	807.0	834.5	851.6	856.8
50°	734.8	750.5	776.8	793.8	800.4
52.5°	682.3	696.7	719.1	733.5	737.4
55°	627.2	640.3	658.7	674.4	679.7
57.5°	568.2	582.6	599.7	612.8	616.7
60°	511.7	523.5	538.0	549.8	551.1
62.5°	456.6	461.9	475.0	485.5	486.8
65°	395.0	402.8	415.9	419.9	426.4
67.5°	338.5	343.8	354.3	359.5	364.8
70°	280.8	284.7	295.2	301.8	303.1
72.5°	230.9	232.2	240.1	245.4	246.7
75°	179.8	182.4	188.9	192.9	195.5
77.5°	136.5	139.1	144.3	147.0	147.0
80°	95.8	99.7	105.0	106.3	107.6
82.5°	61.7	66.9	70.9	72.2	69.5
85°	32.8	39.4	39.4	36.7	38.1
87.5°	11.8	14.4	15.7	17.1	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)