

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: P297205

Luminaire Tested: **D3X-WG-42L92765-LD5-UNV-24-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297205
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-6500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3761.0 lumens
Efficiency: N/A
Efficacy: 123.3 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

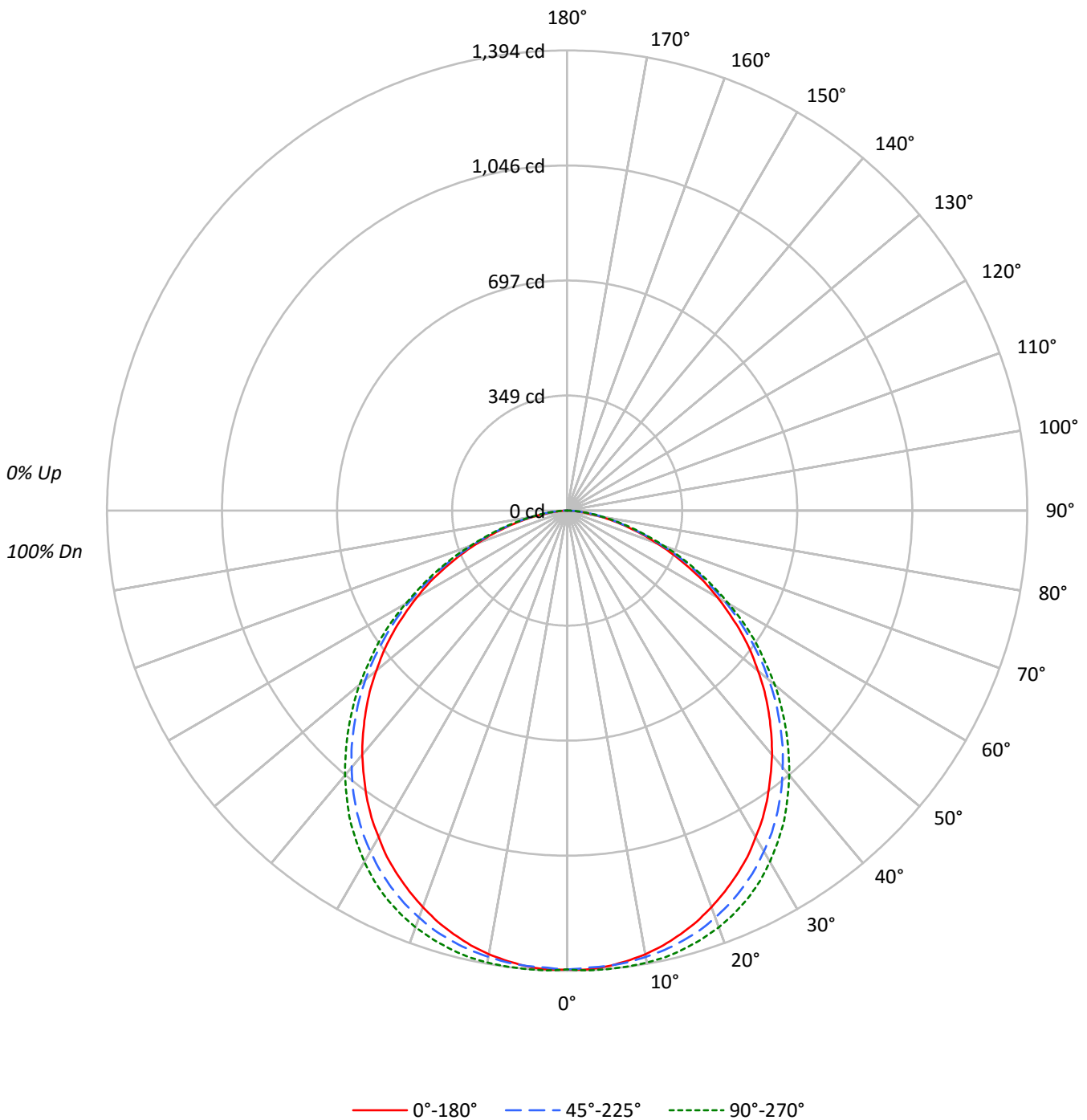
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1871	1871	1871
5°	1872	1871	1883
10°	1865	1876	1900
15°	1850	1880	1914
20°	1831	1879	1923
25°	1806	1870	1924
30°	1775	1852	1909
35°	1739	1826	1883
40°	1697	1784	1839
45°	1643	1733	1784
50°	1579	1670	1720
55°	1511	1586	1637
60°	1414	1486	1523
65°	1291	1360	1394
70°	1134	1192	1224
75°	960	1009	1043
80°	762	835	856
85°	520	624	604



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	3.5
10°-20°	381.4	10.1
20°-30°	579.6	15.4
30°-40°	691.6	18.4
40°-50°	698.5	18.6
50°-60°	601.8	16.0
60°-70°	419.5	11.2
70°-80°	207.9	5.5
80°-90°	48.5	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°	1093.1	29.1
0°-40°	1784.8	47.5
0°-60°	3085.1	82.0
0°-90°	3761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3761.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1386	1385	1385	1392	1394	132
15°	1328	1335	1350	1368	1374	375
25°	1217	1233	1260	1285	1296	560
35°	1059	1076	1112	1137	1146	662
45°	864	882	911	932	938	666
55°	644	658	676	692	698	574
65°	406	414	427	431	438	403
75°	185	187	194	198	201	199
85°	34	40	40	38	39	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1390.4	1390.4	1390.4	1390.4	1390.4
2.5°	1391.7	1389.0	1386.3	1391.7	1394.4
5°	1386.3	1385.0	1385.0	1391.7	1394.4
7.5°	1376.9	1376.9	1380.9	1390.4	1393.1
10°	1364.8	1367.5	1372.8	1386.3	1390.4
12.5°	1348.6	1354.0	1363.4	1379.6	1385.0
15°	1328.4	1335.1	1349.9	1367.5	1374.2
17.5°	1305.5	1314.9	1333.8	1354.0	1360.7
20°	1278.5	1290.7	1312.2	1335.1	1343.2
22.5°	1248.9	1263.7	1288.0	1312.2	1321.7
25°	1216.6	1232.7	1259.7	1285.3	1296.1
27.5°	1182.9	1199.1	1228.7	1254.3	1265.1
30°	1142.5	1161.3	1192.3	1219.3	1228.7
32.5°	1103.4	1122.3	1154.6	1178.8	1188.3
35°	1058.9	1076.5	1111.5	1137.1	1146.5
37.5°	1011.8	1032.0	1065.7	1088.6	1096.7
40°	966.0	983.5	1015.8	1038.7	1046.8
42.5°	914.8	933.6	966.0	986.2	992.9
45°	863.6	882.4	910.7	932.3	937.7
47.5°	811.0	828.6	856.9	874.4	879.8
50°	754.5	770.6	797.6	815.1	821.8
52.5°	700.6	715.4	738.3	753.1	757.2
55°	644.0	657.5	676.3	692.5	697.9
57.5°	583.4	598.2	615.7	629.2	633.2
60°	525.4	537.6	552.4	564.5	565.8
62.5°	468.8	474.2	487.7	498.5	499.8
65°	405.5	413.6	427.1	431.1	437.9
67.5°	347.6	353.0	363.8	369.1	374.5
70°	288.3	292.4	303.1	309.9	311.2
72.5°	237.1	238.5	246.5	251.9	253.3
75°	184.6	187.3	194.0	198.0	200.7
77.5°	140.1	142.8	148.2	150.9	150.9
80°	98.3	102.4	107.8	109.1	110.5
82.5°	63.3	68.7	72.8	74.1	71.4
85°	33.7	40.4	40.4	37.7	39.1
87.5°	12.1	14.8	16.2	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)