

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: P297058

Luminaire Tested: **D3X-WG-42L82765-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297058
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-42L82765-LD5-UNV-24-T1-W2A-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3741.0 lumens
Efficiency: N/A
Efficacy: 129.4 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

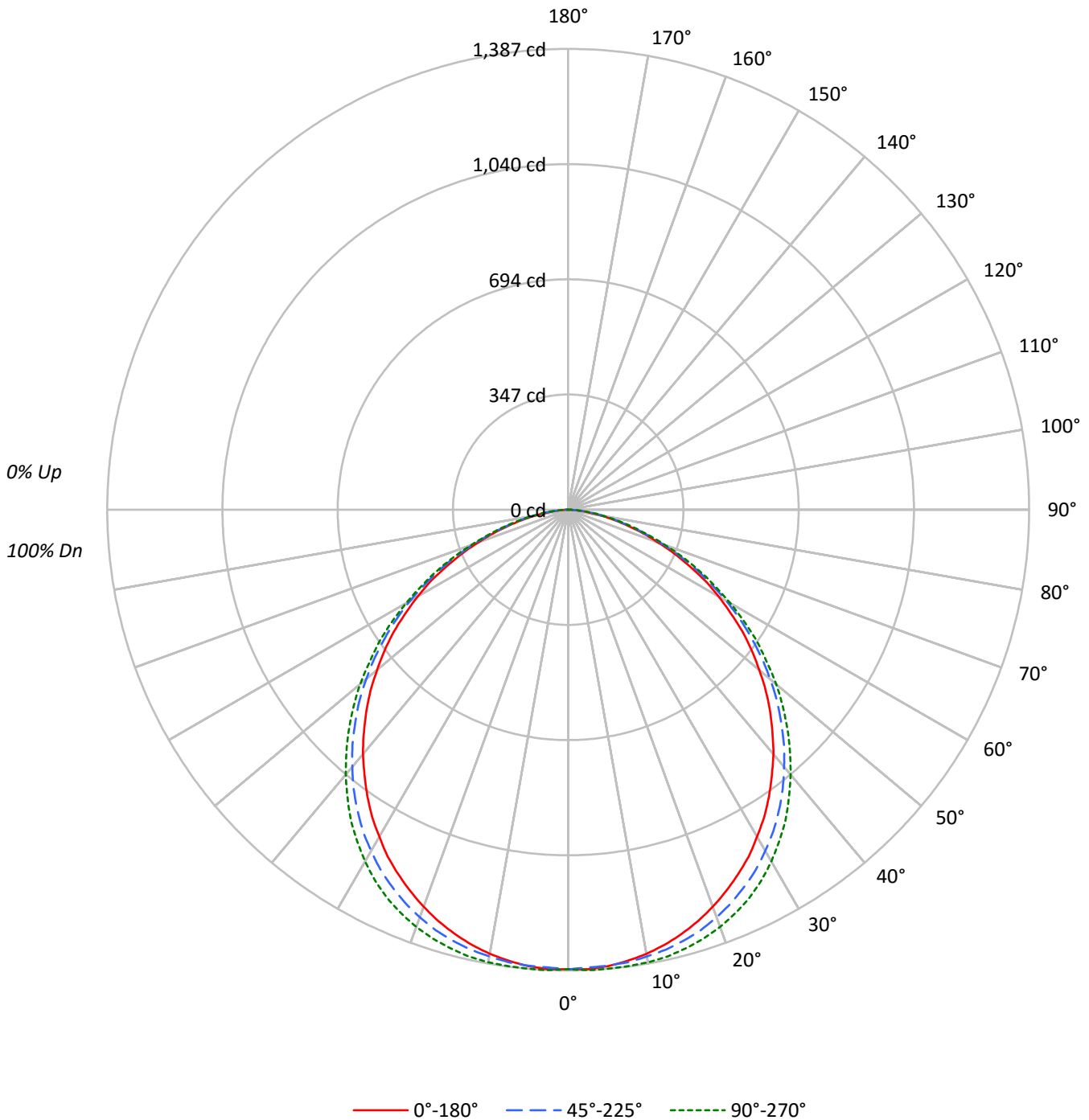
Input Watts (W): 28.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1861	1861	1861
5°	1862	1861	1873
10°	1855	1866	1890
15°	1841	1870	1904
20°	1821	1869	1913
25°	1796	1860	1914
30°	1766	1843	1899
35°	1730	1816	1873
40°	1688	1775	1829
45°	1635	1724	1775
50°	1571	1661	1711
55°	1503	1578	1628
60°	1406	1478	1514
65°	1284	1352	1387
70°	1128	1186	1218
75°	954	1003	1038
80°	758	831	852
85°	517	621	601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	3.5
10°-20°	379.4	10.1
20°-30°	576.5	15.4
30°-40°	687.9	18.4
40°-50°	694.8	18.6
50°-60°	598.6	16.0
60°-70°	417.3	11.2
70°-80°	206.8	5.5
80°-90°	48.2	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°	1087.3	29.1
0°-40°	1775.3	47.5
0°-60°	3068.7	82.0
0°-90°	3741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3741.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1383	1383	1383	1383	1383	
5°	1379	1378	1378	1384	1387	131
15°	1321	1328	1343	1360	1367	373
25°	1210	1226	1253	1278	1289	557
35°	1053	1071	1106	1131	1140	658
45°	859	878	906	927	933	662
55°	641	654	673	689	694	571
65°	403	411	425	429	436	401
75°	184	186	193	197	200	198
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°	1383.0	1383.0	1383.0	1383.0	<i>1383.0</i>
2.5°	<i>1384.3</i>	<i>1381.6</i>	<i>1378.9</i>	<i>1384.3</i>	<i>1387.0</i>
5°	1378.9	1377.6	1377.6	1384.3	<i>1387.0</i>
7.5°	1369.6	1369.6	1373.6	1383.0	<i>1385.6</i>
10°	1357.5	1360.2	1365.5	1378.9	<i>1383.0</i>
12.5°	1341.4	1346.8	1356.2	1372.2	<i>1377.6</i>
15°	1321.3	1328.0	1342.8	1360.2	<i>1366.9</i>
17.5°	1298.5	1307.9	1326.7	1346.8	<i>1353.5</i>
20°	1271.7	1283.8	1305.2	1328.0	<i>1336.1</i>
22.5°	1242.3	1257.0	1281.1	1305.2	<i>1314.6</i>
25°	1210.1	1226.2	1253.0	1278.4	<i>1289.2</i>
27.5°	1176.6	1192.7	1222.2	1247.6	<i>1258.3</i>
30°	1136.4	1155.2	1186.0	1212.8	<i>1222.2</i>
32.5°	1097.5	1116.3	1148.5	1172.6	<i>1182.0</i>
35°	1053.3	1070.7	1105.6	1131.0	<i>1140.4</i>
37.5°	1006.4	1026.5	1060.0	1082.8	<i>1090.8</i>
40°	960.8	978.3	1010.4	1033.2	<i>1041.2</i>
42.5°	909.9	928.7	960.8	980.9	<i>987.6</i>
45°	859.0	877.8	905.9	927.3	<i>932.7</i>
47.5°	806.7	824.2	852.3	869.7	<i>875.1</i>
50°	750.4	766.5	793.3	810.8	<i>817.5</i>
52.5°	696.8	711.6	734.4	749.1	<i>753.1</i>
55°	640.6	654.0	672.7	688.8	<i>694.2</i>
57.5°	580.3	595.0	612.4	625.8	<i>629.8</i>
60°	522.6	534.7	549.4	561.5	<i>562.8</i>
62.5°	466.3	471.7	485.1	495.8	<i>497.2</i>
65°	403.4	411.4	424.8	428.8	<i>435.5</i>
67.5°	345.7	351.1	361.8	367.2	<i>372.5</i>
70°	286.8	290.8	301.5	308.2	<i>309.6</i>
72.5°	235.9	237.2	245.2	250.6	<i>251.9</i>
75°	183.6	186.3	193.0	197.0	<i>199.7</i>
77.5°	139.4	142.0	147.4	150.1	<i>150.1</i>
80°	97.8	101.8	107.2	108.5	<i>109.9</i>
82.5°	63.0	68.3	72.4	73.7	<i>71.0</i>
85°	33.5	40.2	40.2	37.5	<i>38.9</i>
87.5°	12.1	14.7	16.1	17.4	<i>17.4</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)