

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: P297203

Luminaire Tested: **D3X-WG-42L92765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297203  
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-5500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3720.0 lumens  
Efficiency: N/A  
Efficacy: 124.4 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

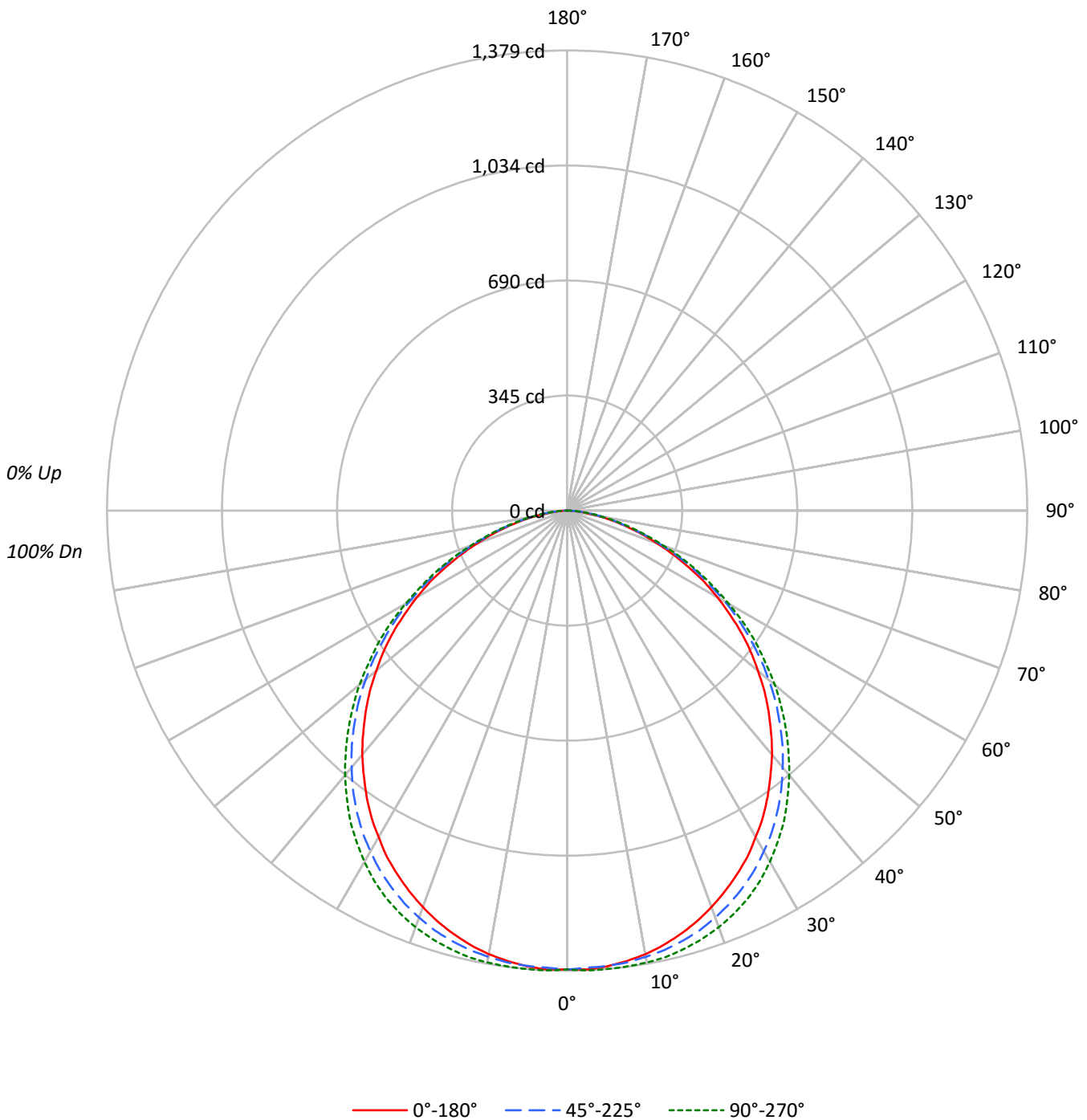
Input Watts (W): 29.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1850	1850	1850
5°	1852	1850	1863
10°	1844	1855	1879
15°	1830	1860	1893
20°	1811	1858	1902
25°	1786	1850	1903
30°	1756	1832	1888
35°	1720	1806	1863
40°	1678	1765	1819
45°	1625	1714	1765
50°	1562	1651	1702
55°	1494	1569	1619
60°	1399	1470	1506
65°	1277	1345	1379
70°	1122	1179	1211
75°	949	998	1032
80°	754	826	847
85°	514	618	596



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.7	3.5
10°-20°	377.2	10.1
20°-30°	573.3	15.4
30°-40°	684.1	18.4
40°-50°	690.9	18.6
50°-60°	595.3	16.0
60°-70°	415.0	11.2
70°-80°	205.6	5.5
80°-90°	48.0	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°	1081.2	29.1
0°-40°	1765.3	47.5
0°-60°	3051.4	82.0
0°-90°	3720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3720.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1375	1375	1375	1375	1375	
5°	1371	1370	1370	1376	1379	130
15°	1314	1321	1335	1353	1359	371
25°	1203	1219	1246	1271	1282	554
35°	1047	1065	1099	1125	1134	655
45°	854	873	901	922	928	658
55°	637	650	669	685	690	568
65°	401	409	422	426	433	398
75°	183	185	192	196	199	197
85°	33	40	40	37	39	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1375.2	1375.2	1375.2	1375.2	1375.2
2.5°	1376.5	1373.9	1371.2	1376.5	1379.2
5°	1371.2	1369.9	1369.9	1376.5	1379.2
7.5°	1361.9	1361.9	1365.9	1375.2	1377.9
10°	1349.9	1352.6	1357.9	1371.2	1375.2
12.5°	1333.9	1339.2	1348.6	1364.5	1369.9
15°	1313.9	1320.6	1335.2	1352.6	1359.2
17.5°	1291.3	1300.6	1319.2	1339.2	1345.9
20°	1264.6	1276.6	1297.9	1320.6	1328.6
22.5°	1235.3	1249.9	1273.9	1297.9	1307.2
25°	1203.3	1219.3	1245.9	1271.3	1281.9
27.5°	1170.0	1186.0	1215.3	1240.6	1251.3
30°	1130.0	1148.7	1179.3	1206.0	1215.3
32.5°	1091.4	1110.0	1142.0	1166.0	1175.3
35°	1047.4	1064.7	1099.4	1124.7	1134.0
37.5°	1000.8	1020.7	1054.1	1076.7	1084.7
40°	955.4	972.8	1004.8	1027.4	1035.4
42.5°	904.8	923.5	955.4	975.4	982.1
45°	854.2	872.8	900.8	922.1	927.5
47.5°	802.2	819.5	847.5	864.8	870.2
50°	746.2	762.2	788.9	806.2	812.9
52.5°	692.9	707.6	730.2	744.9	748.9
55°	637.0	650.3	668.9	684.9	690.3
57.5°	577.0	591.7	609.0	622.3	626.3
60°	519.7	531.7	546.4	558.3	559.7
62.5°	463.7	469.1	482.4	493.0	494.4
65°	401.1	409.1	422.4	426.4	433.1
67.5°	343.8	349.1	359.8	365.1	370.5
70°	285.2	289.2	299.8	306.5	307.8
72.5°	234.5	235.9	243.9	249.2	250.5
75°	182.6	185.2	191.9	195.9	198.6
77.5°	138.6	141.3	146.6	149.2	149.2
80°	97.3	101.3	106.6	107.9	109.3
82.5°	62.6	68.0	72.0	73.3	70.6
85°	33.3	40.0	40.0	37.3	38.6
87.5°	12.0	14.7	16.0	17.3	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)