

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: P297141

Luminaire Tested: **D3X-WG-42L93050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297141  
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-42L93050-LD5-UNV-24-T1-W2A-4000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3638.0 lumens  
Efficiency: N/A  
Efficacy: 121.7 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

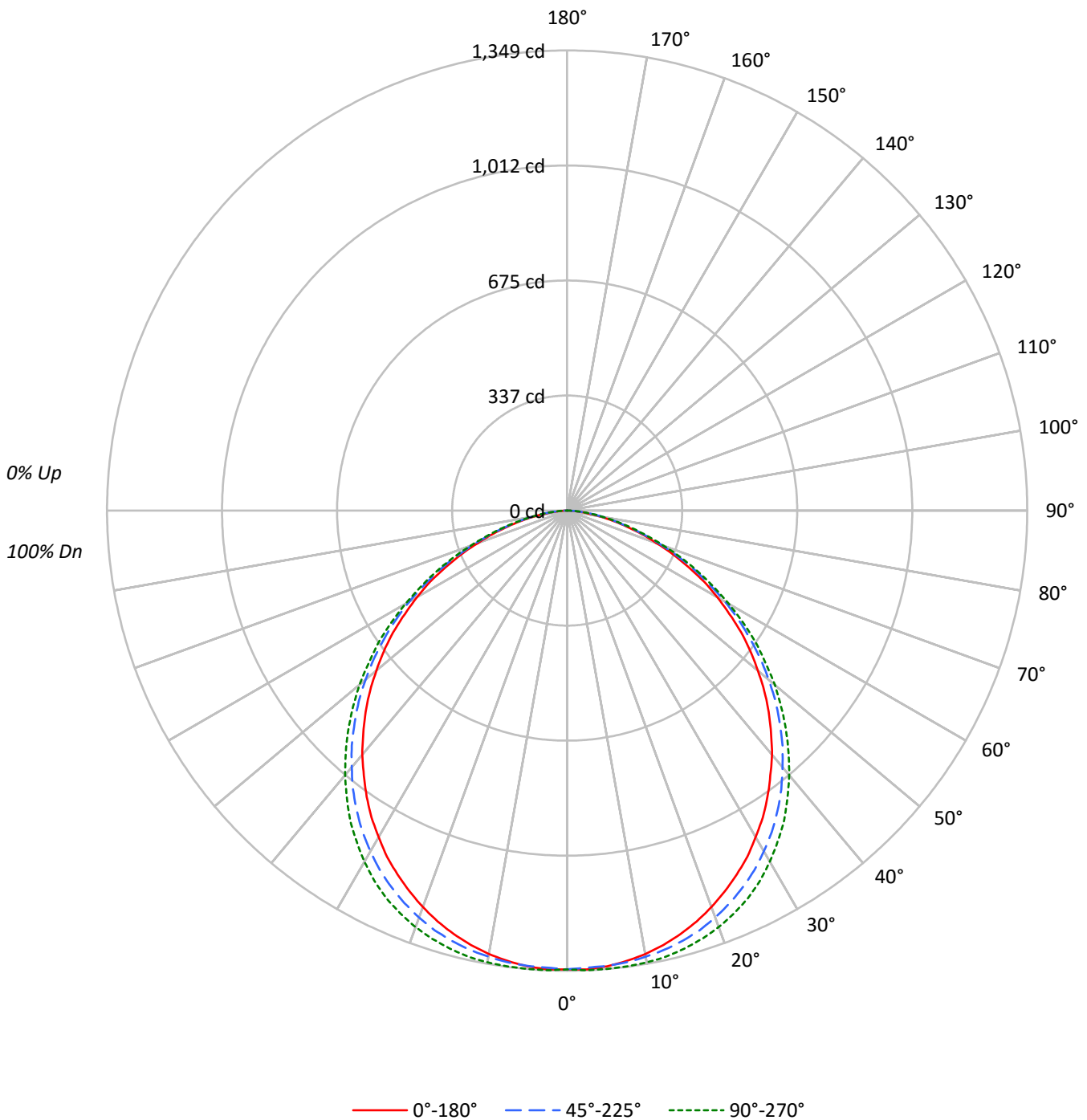
Input Watts (W): 29.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1810	1810	1810
5°	1811	1809	1822
10°	1804	1814	1837
15°	1790	1819	1852
20°	1771	1817	1860
25°	1747	1809	1861
30°	1717	1792	1846
35°	1682	1766	1822
40°	1641	1726	1779
45°	1589	1676	1726
50°	1528	1615	1664
55°	1461	1535	1584
60°	1368	1438	1473
65°	1249	1315	1348
70°	1097	1153	1184
75°	928	976	1010
80°	737	808	828
85°	503	604	584



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.8	3.5
10°-20°	368.9	10.1
20°-30°	560.7	15.4
30°-40°	669.0	18.4
40°-50°	675.7	18.6
50°-60°	582.1	16.0
60°-70°	405.8	11.2
70°-80°	201.1	5.5
80°-90°	46.9	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°	1057.4	29.1
0°-40°	1726.4	47.5
0°-60°	2984.2	82.0
0°-90°	3638.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3638.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1345	1345	1345	1345	1345	
5°	1341	1340	1340	1346	1349	127
15°	1285	1292	1306	1323	1329	362
25°	1177	1192	1218	1243	1254	542
35°	1024	1041	1075	1100	1109	640
45°	835	854	881	902	907	644
55°	623	636	654	670	675	555
65°	392	400	413	417	424	390
75°	178	181	188	192	194	192
85°	33	39	39	36	38	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1344.9	1344.9	1344.9	1344.9	1344.9
2.5°	1346.2	1343.6	1341.0	1346.2	1348.8
5°	1341.0	1339.7	1339.7	1346.2	1348.8
7.5°	1331.9	1331.9	1335.8	1344.9	1347.5
10°	1320.1	1322.7	1328.0	1341.0	1344.9
12.5°	1304.5	1309.7	1318.8	1334.5	1339.7
15°	1284.9	1291.5	1305.8	1322.7	1329.3
17.5°	1262.8	1271.9	1290.2	1309.7	1316.2
20°	1236.7	1248.5	1269.3	1291.5	1299.3
22.5°	1208.1	1222.4	1245.8	1269.3	1278.4
25°	1176.8	1192.4	1218.5	1243.2	1253.7
27.5°	1144.2	1159.8	1188.5	1213.3	1223.7
30°	1105.1	1123.3	1153.3	1179.4	1188.5
32.5°	1067.3	1085.6	1116.8	1140.3	1149.4
35°	1024.3	1041.2	1075.1	1099.9	1109.0
37.5°	978.7	998.2	1030.8	1053.0	1060.8
40°	934.4	951.3	982.6	1004.8	1012.6
42.5°	884.9	903.1	934.4	953.9	960.5
45°	835.3	853.6	881.0	901.8	907.0
47.5°	784.5	801.5	828.8	845.8	851.0
50°	729.8	745.4	771.5	788.4	794.9
52.5°	677.7	692.0	714.1	728.5	732.4
55°	622.9	636.0	654.2	669.8	675.1
57.5°	564.3	578.6	595.6	608.6	612.5
60°	508.2	520.0	534.3	546.0	547.3
62.5°	453.5	458.7	471.8	482.2	483.5
65°	392.3	400.1	413.1	417.0	423.5
67.5°	336.2	341.4	351.9	357.1	362.3
70°	278.9	282.8	293.2	299.7	301.0
72.5°	229.4	230.7	238.5	243.7	245.0
75°	178.5	181.1	187.7	191.6	194.2
77.5°	135.5	138.1	143.4	146.0	146.0
80°	95.1	99.0	104.3	105.6	106.9
82.5°	61.2	66.5	70.4	71.7	69.1
85°	32.6	39.1	39.1	36.5	37.8
87.5°	11.7	14.3	15.6	16.9	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)