

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: P297003

Luminaire Tested: **D3X-WG-42L83050-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297003  
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-42L83050-LD5-UNV-24-T1-W2A-5000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4201.0 lumens  
Efficiency: N/A  
Efficacy: 137.7 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

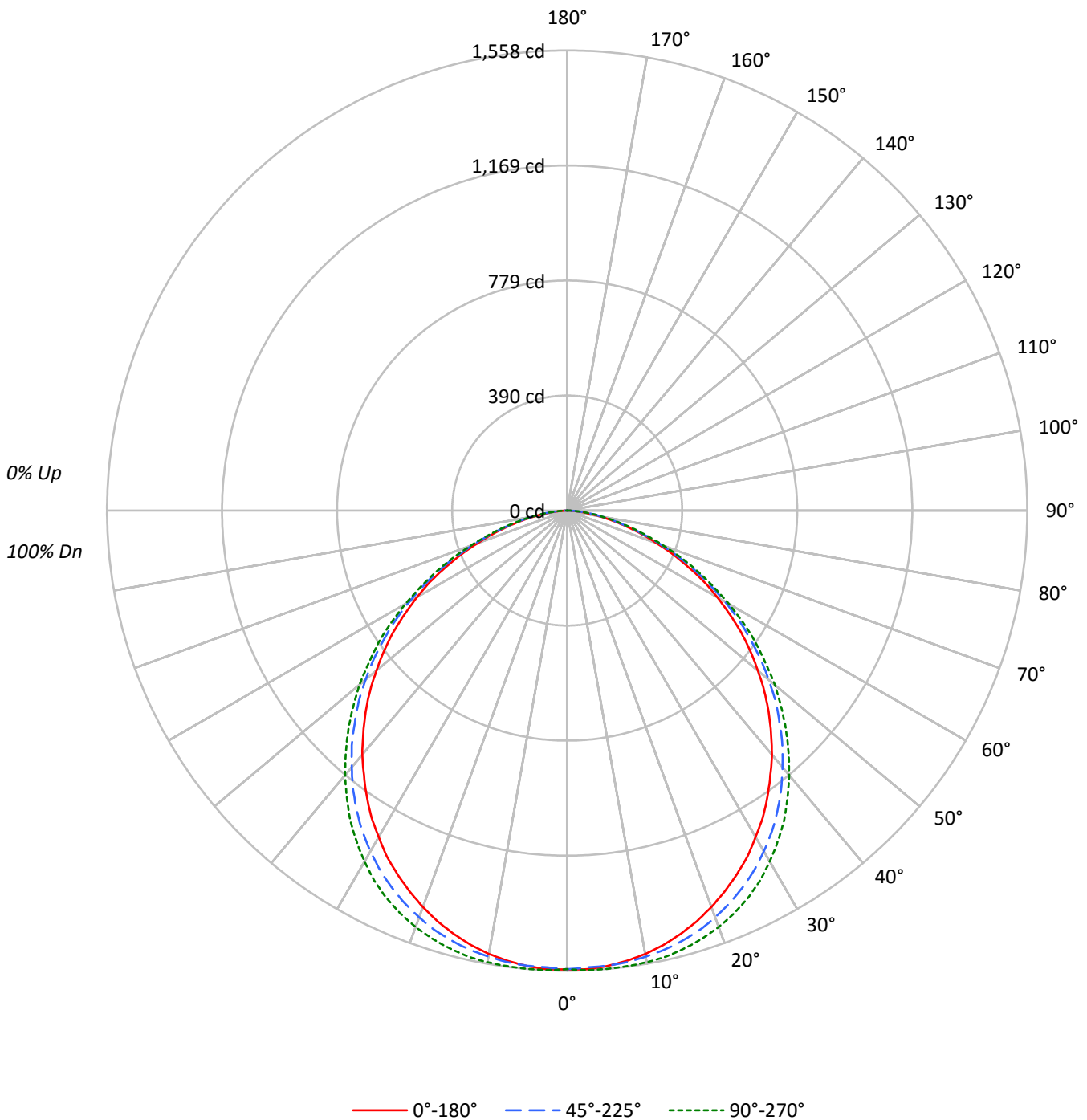
Input Watts (W): 30.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2090	2090	2090
5°	2091	2089	2104
10°	2083	2095	2122
15°	2067	2100	2138
20°	2045	2099	2148
25°	2017	2089	2149
30°	1983	2069	2132
35°	1943	2039	2103
40°	1895	1993	2054
45°	1835	1936	1993
50°	1764	1865	1922
55°	1687	1772	1829
60°	1579	1660	1701
65°	1442	1519	1557
70°	1267	1332	1367
75°	1072	1127	1166
80°	852	933	956
85°	580	696	673



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.6	3.5
10°-20°	426.0	10.1
20°-30°	647.4	15.4
30°-40°	772.5	18.4
40°-50°	780.3	18.6
50°-60°	672.2	16.0
60°-70°	468.6	11.2
70°-80°	232.2	5.5
80°-90°	54.2	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°	1221.0	29.1
0°-40°	1993.5	47.5
0°-60°	3446.0	82.0
0°-90°	4201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4201.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1553	1553	1553	1553	1553	
5°	1548	1547	1547	1554	1558	147
15°	1484	1491	1508	1527	1535	418
25°	1359	1377	1407	1436	1448	626
35°	1183	1202	1242	1270	1281	739
45°	965	986	1017	1041	1047	744
55°	719	734	755	774	780	641
65°	453	462	477	482	489	450
75°	206	209	217	221	224	222
85°	38	45	45	42	44	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1553.0	1553.0	1553.0	1553.0	1553.0
2.5°	1554.5	1551.5	1548.5	1554.5	1557.5
5°	1548.5	1547.0	1547.0	1554.5	1557.5
7.5°	1538.0	1538.0	1542.5	1553.0	1556.0
10°	1524.4	1527.4	1533.5	1548.5	1553.0
12.5°	1506.4	1512.4	1522.9	1541.0	1547.0
15°	1483.8	1491.3	1507.9	1527.4	1535.0
17.5°	1458.2	1468.7	1489.8	1512.4	1519.9
20°	1428.1	1441.7	1465.7	1491.3	1500.4
22.5°	1395.0	1411.6	1438.7	1465.7	1476.3
25°	1358.9	1377.0	1407.0	1435.6	1447.7
27.5°	1321.3	1339.3	1372.4	1401.0	1413.1
30°	1276.1	1297.2	1331.8	1361.9	1372.4
32.5°	1232.5	1253.6	1289.7	1316.8	1327.3
35°	1182.8	1202.4	1241.5	1270.1	1280.6
37.5°	1130.2	1152.7	1190.3	1215.9	1225.0
40°	1079.0	1098.6	1134.7	1160.3	1169.3
42.5°	1021.8	1042.9	1079.0	1101.6	1109.1
45°	964.6	985.7	1017.3	1041.4	1047.4
47.5°	905.9	925.5	957.1	976.7	982.7
50°	842.7	860.8	890.9	910.4	918.0
52.5°	782.5	799.1	824.7	841.2	845.7
55°	719.3	734.4	755.4	773.5	779.5
57.5°	651.6	668.2	687.7	702.8	707.3
60°	586.9	600.4	617.0	630.5	632.0
62.5°	523.7	529.7	544.8	556.8	558.3
65°	453.0	462.0	477.0	481.6	489.1
67.5°	388.3	394.3	406.3	412.3	418.4
70°	322.0	326.6	338.6	346.1	347.6
72.5°	264.9	266.4	275.4	281.4	282.9
75°	206.2	209.2	216.7	221.2	224.2
77.5°	156.5	159.5	165.5	168.5	168.5
80°	109.9	114.4	120.4	121.9	123.4
82.5°	70.7	76.7	81.3	82.8	79.8
85°	37.6	45.1	45.1	42.1	43.6
87.5°	13.5	16.6	18.1	19.6	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)