

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: P296865

Luminaire Tested: **D3X-WD-45L93050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296865  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-45L93050-LD5-UNV-24-T1-W2A-3500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3628.0 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

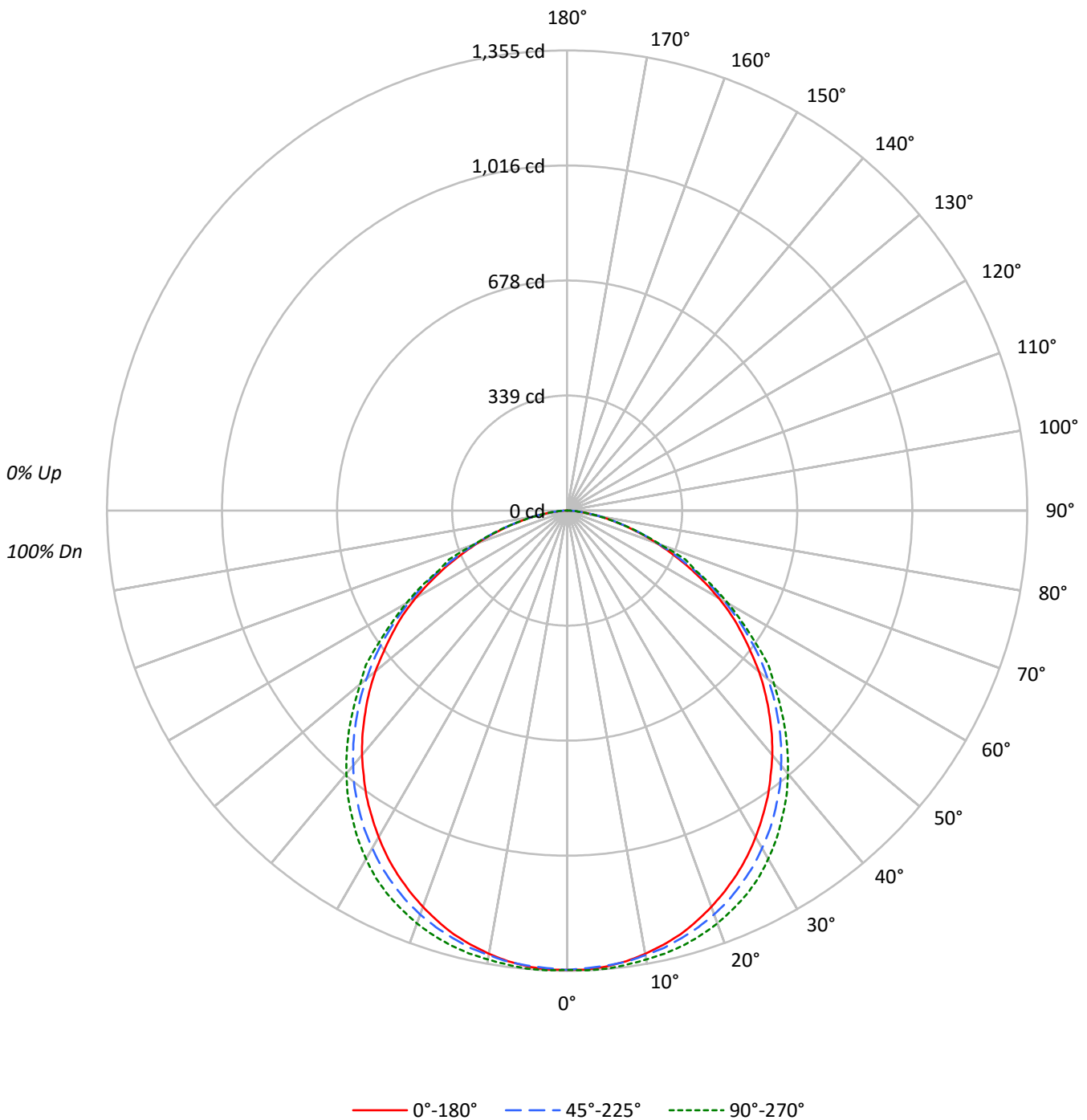
Input Watts (W): 32.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
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	48	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	28	38	32	27	37	32	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1820	1820	1820
5°	1820	1816	1828
10°	1811	1816	1834
15°	1799	1815	1846
20°	1778	1812	1853
25°	1755	1801	1853
30°	1725	1784	1840
35°	1691	1758	1813
40°	1651	1722	1776
45°	1600	1674	1726
50°	1542	1616	1665
55°	1472	1539	1585
60°	1387	1440	1475
65°	1260	1301	1326
70°	1106	1132	1147
75°	934	947	954
80°	746	756	736
85°	502	522	502



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.2	3.5
10°-20°	368.6	10.2
20°-30°	559.3	15.4
30°-40°	667.7	18.4
40°-50°	676.0	18.6
50°-60°	584.3	16.1
60°-70°	405.0	11.2
70°-80°	195.9	5.4
80°-90°	43.1	1.2
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°	1056.0	29.1
0°-40°	1723.7	47.5
0°-60°	2984.0	82.2
0°-90°	3628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3628.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1352	1352	1352	1352	1352	
5°	1347	1346	1345	1351	1354	128
15°	1291	1294	1303	1319	1325	364
25°	1182	1190	1213	1238	1248	544
35°	1030	1039	1070	1097	1104	643
45°	841	853	880	902	907	649
55°	627	634	656	683	676	561
65°	396	400	409	415	417	392
75°	180	181	182	181	184	193
85°	32	35	34	32	32	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1352.5	1352.5	1352.5	1352.5	1352.5
2.5°	1352.5	1351.2	1348.6	1352.5	1355.1
5°	1347.3	1346.0	1344.7	1351.2	1353.8
7.5°	1338.2	1338.2	1339.5	1346.0	1348.6
10°	1325.2	1326.5	1329.1	1339.5	1342.1
12.5°	1309.5	1312.1	1318.6	1330.4	1335.6
15°	1291.3	1293.9	1303.0	1318.6	1325.2
17.5°	1267.9	1273.1	1286.1	1304.3	1310.8
20°	1241.8	1248.4	1265.3	1286.1	1293.9
22.5°	1213.2	1219.7	1241.8	1264.0	1271.8
25°	1182.0	1189.8	1213.2	1237.9	1248.4
27.5°	1148.1	1157.2	1183.3	1209.3	1219.7
30°	1110.4	1120.8	1148.1	1175.5	1184.6
32.5°	1070.0	1080.4	1111.7	1137.7	1146.8
35°	1029.7	1038.8	1070.0	1097.4	1103.9
37.5°	984.1	994.5	1028.4	1051.8	1060.9
40°	939.8	950.3	980.2	1003.6	1011.4
42.5°	891.7	902.1	932.0	954.2	960.7
45°	840.9	852.6	880.0	902.1	907.3
47.5°	790.1	799.3	827.9	847.4	851.3
50°	736.8	745.9	771.9	791.4	795.4
52.5°	680.8	695.1	715.9	730.3	747.2
55°	627.4	633.9	656.1	683.4	675.6
57.5°	574.1	578.0	596.2	607.9	610.5
60°	515.5	520.7	535.0	541.5	548.0
62.5°	454.3	458.2	475.1	481.6	484.2
65°	395.7	399.6	408.7	415.3	416.6
67.5°	335.8	339.8	347.6	352.8	376.2
70°	281.2	283.8	287.7	298.1	291.6
72.5°	229.1	230.4	234.3	234.3	235.6
75°	179.6	180.9	182.2	180.9	183.5
77.5°	134.1	136.7	138.0	136.7	135.4
80°	96.3	98.9	97.6	95.0	95.0
82.5°	62.5	63.8	62.5	61.2	61.2
85°	32.5	35.1	33.8	32.5	32.5
87.5°	11.7	13.0	14.3	15.6	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)