

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: P296716

Luminaire Tested: **D3X-WD-36L83050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296716  
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-36L83050-LD5-UNV-24-T1-W2A-4000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3620.0 lumens  
Efficiency: N/A  
Efficacy: 140.3 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

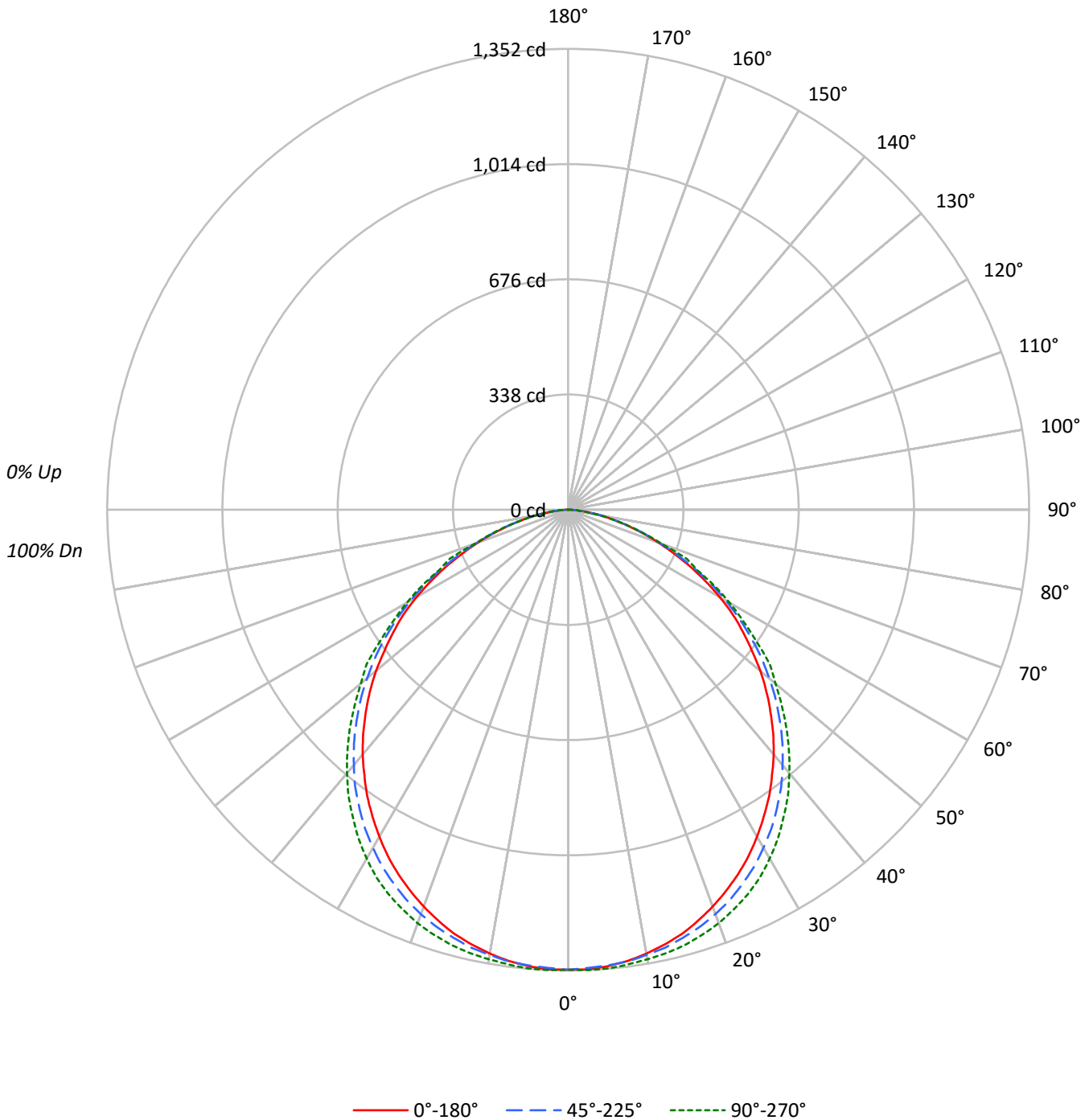
Input Watts (W): 25.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1816	1816	1816
5°	1816	1812	1824
10°	1806	1812	1830
15°	1795	1811	1842
20°	1774	1808	1849
25°	1751	1797	1849
30°	1721	1780	1836
35°	1688	1754	1809
40°	1647	1718	1773
45°	1597	1671	1723
50°	1539	1612	1661
55°	1468	1536	1581
60°	1384	1436	1471
65°	1257	1298	1323
70°	1104	1129	1144
75°	932	945	952
80°	745	755	735
85°	502	522	502



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.9	3.5
10°-20°	367.8	10.2
20°-30°	558.0	15.4
30°-40°	666.2	18.4
40°-50°	674.5	18.6
50°-60°	583.0	16.1
60°-70°	404.1	11.2
70°-80°	195.5	5.4
80°-90°	43.0	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°	1053.7	29.1
0°-40°	1719.9	47.5
0°-60°	2977.4	82.2
0°-90°	3620.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3620.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1350	1350	1350	1350	1350	
5°	1344	1343	1342	1348	1351	128
15°	1288	1291	1300	1316	1322	363
25°	1179	1187	1210	1235	1246	543
35°	1027	1036	1068	1095	1101	642
45°	839	851	878	900	905	647
55°	626	632	655	682	674	559
65°	395	399	408	414	416	391
75°	179	180	182	180	183	192
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°	1349.5	1349.5	1349.5	1349.5	1349.5
2.5°	1349.5	1348.2	1345.6	1349.5	1352.1
5°	1344.3	1343.0	1341.7	1348.2	1350.8
7.5°	1335.2	1335.2	1336.5	1343.0	1345.6
10°	1322.2	1323.5	1326.1	1336.5	1339.1
12.5°	1306.6	1309.2	1315.7	1327.4	1332.6
15°	1288.5	1291.1	1300.2	1315.7	1322.2
17.5°	1265.1	1270.3	1283.3	1301.5	1307.9
20°	1239.1	1245.6	1262.5	1283.3	1291.1
22.5°	1210.5	1217.0	1239.1	1261.2	1269.0
25°	1179.4	1187.2	1210.5	1235.2	1245.6
27.5°	1145.6	1154.7	1180.7	1206.6	1217.0
30°	1107.9	1118.3	1145.6	1172.9	1182.0
32.5°	1067.7	1078.0	1109.2	1135.2	1144.3
35°	1027.4	1036.5	1067.7	1094.9	1101.4
37.5°	981.9	992.3	1026.1	1049.5	1058.6
40°	937.8	948.2	978.0	1001.4	1009.2
42.5°	889.7	900.1	930.0	952.1	958.6
45°	839.1	850.7	878.0	900.1	905.3
47.5°	788.4	797.5	826.1	845.6	849.5
50°	735.2	744.2	770.2	789.7	793.6
52.5°	679.3	693.6	714.4	728.7	745.5
55°	626.0	632.5	654.6	681.9	674.1
57.5°	572.8	576.7	594.9	606.6	609.2
60°	514.3	519.5	533.8	540.3	546.8
62.5°	453.3	457.2	474.1	480.6	483.2
65°	394.9	398.7	407.8	414.3	415.6
67.5°	335.1	339.0	346.8	352.0	375.4
70°	280.6	283.2	287.0	297.4	290.9
72.5°	228.6	229.9	233.8	233.8	235.1
75°	179.2	180.5	181.8	180.5	183.1
77.5°	133.8	136.4	137.7	136.4	135.1
80°	96.1	98.7	97.4	94.8	94.8
82.5°	62.3	63.6	62.3	61.0	61.0
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)