

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: P296998

Luminaire Tested: **D3X-WG-36L83050-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296998  
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-36L83050-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: 3661.0 lumens  
Efficiency: N/A  
Efficacy: 138.7 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

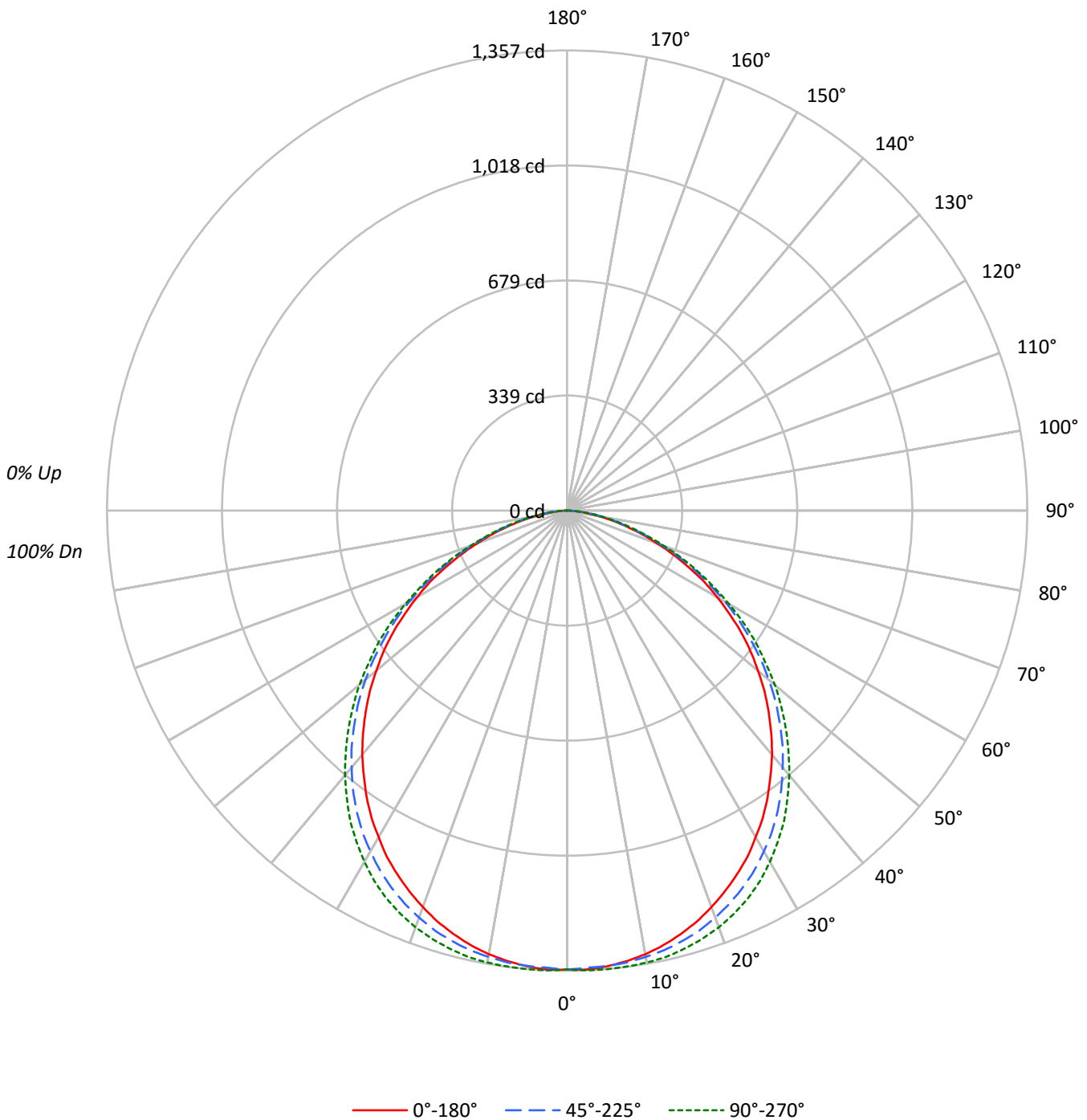
Input Watts (W): 26.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1821	1821	1821
5°	1823	1821	1833
10°	1815	1826	1849
15°	1801	1830	1863
20°	1782	1829	1872
25°	1758	1820	1873
30°	1728	1803	1858
35°	1693	1777	1833
40°	1652	1737	1790
45°	1600	1687	1737
50°	1537	1625	1675
55°	1471	1544	1593
60°	1376	1447	1482
65°	1257	1323	1357
70°	1104	1161	1192
75°	934	981	1016
80°	742	813	833
85°	506	607	587



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.6	3.5
10°-20°	371.3	10.1
20°-30°	564.2	15.4
30°-40°	673.2	18.4
40°-50°	679.9	18.6
50°-60°	585.8	16.0
60°-70°	408.4	11.2
70°-80°	202.4	5.5
80°-90°	47.2	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°	1064.1	29.1
0°-40°	1737.3	47.5
0°-60°	3003.0	82.0
0°-90°	3661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3661.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1353	1353	1353	1353	1353	
5°	1350	1348	1348	1355	1357	128
15°	1293	1300	1314	1331	1338	365
25°	1184	1200	1226	1251	1262	546
35°	1031	1048	1082	1107	1116	644
45°	841	859	886	908	913	648
55°	627	640	658	674	679	559
65°	395	403	416	420	426	392
75°	180	182	189	193	195	194
85°	33	39	39	37	38	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1353.4	1353.4	1353.4	1353.4	1353.4
2.5°	1354.7	1352.1	1349.5	1354.7	1357.3
5°	1349.5	1348.1	1348.1	1354.7	1357.3
7.5°	1340.3	1340.3	1344.2	1353.4	1356.0
10°	1328.5	1331.1	1336.3	1349.5	1353.4
12.5°	1312.7	1318.0	1327.2	1342.9	1348.1
15°	1293.1	1299.6	1314.1	1331.1	1337.7
17.5°	1270.8	1280.0	1298.3	1318.0	1324.5
20°	1244.5	1256.3	1277.3	1299.6	1307.5
22.5°	1215.7	1230.1	1253.7	1277.3	1286.5
25°	1184.2	1200.0	1226.2	1251.1	1261.6
27.5°	1151.4	1167.2	1196.0	1220.9	1231.4
30°	1112.1	1130.5	1160.6	1186.8	1196.0
32.5°	1074.1	1092.4	1123.9	1147.5	1156.7
35°	1030.8	1047.8	1081.9	1106.8	1116.0
37.5°	984.9	1004.6	1037.3	1059.6	1067.5
40°	940.3	957.3	988.8	1011.1	1019.0
42.5°	890.5	908.8	940.3	960.0	966.5
45°	840.6	859.0	886.5	907.5	912.8
47.5°	789.5	806.5	834.1	851.1	856.4
50°	734.4	750.1	776.4	793.4	800.0
52.5°	681.9	696.4	718.7	733.1	737.0
55°	626.9	640.0	658.3	674.1	679.3
57.5°	567.8	582.3	599.3	612.4	616.4
60°	511.5	523.3	537.7	549.5	550.8
62.5°	456.4	461.6	474.7	485.2	486.5
65°	394.7	402.6	415.7	419.7	426.2
67.5°	338.3	343.6	354.1	359.3	364.6
70°	280.6	284.6	295.1	301.6	302.9
72.5°	230.8	232.1	240.0	245.2	246.5
75°	179.7	182.3	188.8	192.8	195.4
77.5°	136.4	139.0	144.3	146.9	146.9
80°	95.7	99.7	104.9	106.2	107.5
82.5°	61.6	66.9	70.8	72.1	69.5
85°	32.8	39.3	39.3	36.7	38.0
87.5°	11.8	14.4	15.7	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)