

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: P298207

Luminaire Tested: **D3X-WG-40L82765-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298207  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-40L82765-LD5-UNV-22-T1-W2A-4500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3816.0 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

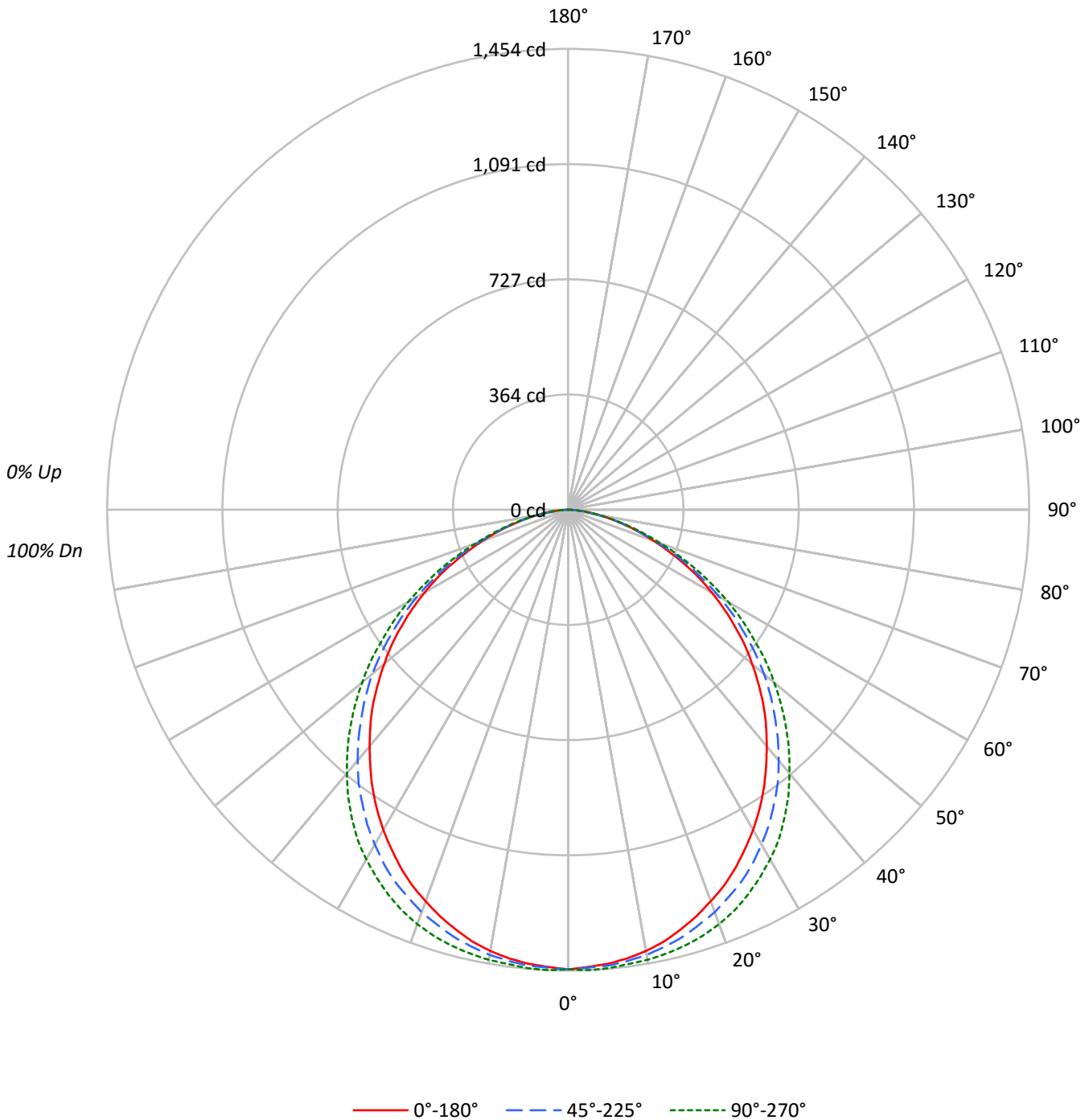
Input Watts (W): 32.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		83	79	76		80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49		59	53	48		58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43		54	47	42		52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38		49	43	38		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31		42	35	30		41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28		39	32	28		38	32	28	26

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

	0°	45°	90°
0°	3902	3902	3902
5°	3884	3901	3923
10°	3863	3896	3941
15°	3820	3888	3967
20°	3764	3869	3985
25°	3704	3843	3981
30°	3625	3789	3959
35°	3533	3719	3906
40°	3422	3628	3814
45°	3314	3507	3700
50°	3171	3375	3553
55°	3012	3183	3354
60°	2812	2965	3139
65°	2566	2683	2837
70°	2247	2342	2438
75°	1916	1959	2043
80°	1537	1570	1601
85°	1127	1062	1000



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.3	3.6
10°-20°	394.0	10.3
20°-30°	595.6	15.6
30°-40°	707.4	18.5
40°-50°	710.2	18.6
50°-60°	606.6	15.9
60°-70°	417.9	11.0
70°-80°	202.7	5.3
80°-90°	44.3	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°	1126.8	29.5
0°-40°	1834.2	48.1
0°-60°	3151.1	82.6
0°-90°	3816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3816.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1450	1450	1450	1450	1450	
5°	1438	1438	1444	1448	1452	137
15°	1371	1377	1396	1414	1424	387
25°	1248	1258	1294	1329	1341	574
35°	1076	1092	1132	1175	1189	672
45°	871	883	922	960	972	670
55°	642	652	678	707	715	574
65°	403	403	421	440	446	399
75°	184	180	188	192	196	198
85°	36	36	34	32	32	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1450.2	1450.2	1450.2	1450.2	1450.2
2.5°	1444.1	1444.1	1446.1	1452.2	1454.2
5°	1438.0	1438.0	1444.1	1448.1	1452.2
7.5°	1427.9	1429.9	1436.0	1444.1	1446.1
10°	1413.7	1415.7	1425.9	1436.0	1442.1
12.5°	1395.5	1399.5	1411.7	1427.9	1434.0
15°	1371.2	1377.3	1395.5	1413.7	1423.8
17.5°	1344.8	1352.9	1373.2	1399.5	1409.7
20°	1314.5	1324.6	1350.9	1379.3	1391.4
22.5°	1284.1	1292.2	1322.6	1355.0	1369.2
25°	1247.6	1257.8	1294.2	1328.6	1340.8
27.5°	1207.1	1221.3	1259.8	1296.2	1308.4
30°	1166.6	1178.8	1219.3	1259.8	1274.0
32.5°	1122.1	1134.2	1178.8	1219.3	1235.5
35°	1075.5	1091.7	1132.2	1174.7	1188.9
37.5°	1024.8	1043.1	1085.6	1122.1	1140.3
40°	974.2	990.4	1032.9	1071.4	1085.6
42.5°	923.6	937.7	978.3	1018.8	1030.9
45°	870.9	883.1	921.5	960.0	972.2
47.5°	814.2	828.4	864.8	897.2	911.4
50°	757.5	771.7	806.1	836.5	848.6
52.5°	702.8	710.9	743.3	771.7	785.8
55°	642.0	652.2	678.5	706.9	715.0
57.5°	583.3	589.4	615.7	640.0	652.2
60°	522.5	526.6	550.9	569.1	583.3
62.5°	465.8	465.8	484.1	504.3	512.4
65°	403.0	403.0	421.3	439.5	445.6
67.5°	342.3	346.3	358.5	372.7	376.7
70°	285.6	285.6	297.7	307.9	309.9
72.5°	234.9	232.9	239.0	247.1	251.1
75°	184.3	180.3	188.4	192.4	196.5
77.5°	139.8	137.7	141.8	145.8	145.8
80°	99.2	97.2	101.3	101.3	103.3
82.5°	64.8	66.8	66.8	64.8	62.8
85°	36.5	36.5	34.4	32.4	32.4
87.5°	12.2	12.2	12.2	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)