

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: P297708

Luminaire Tested: **D3X-WG-35L83050-LD5-UNV-14-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297708  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-35L83050-LD5-UNV-14-T1-W2A-5000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3582.0 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

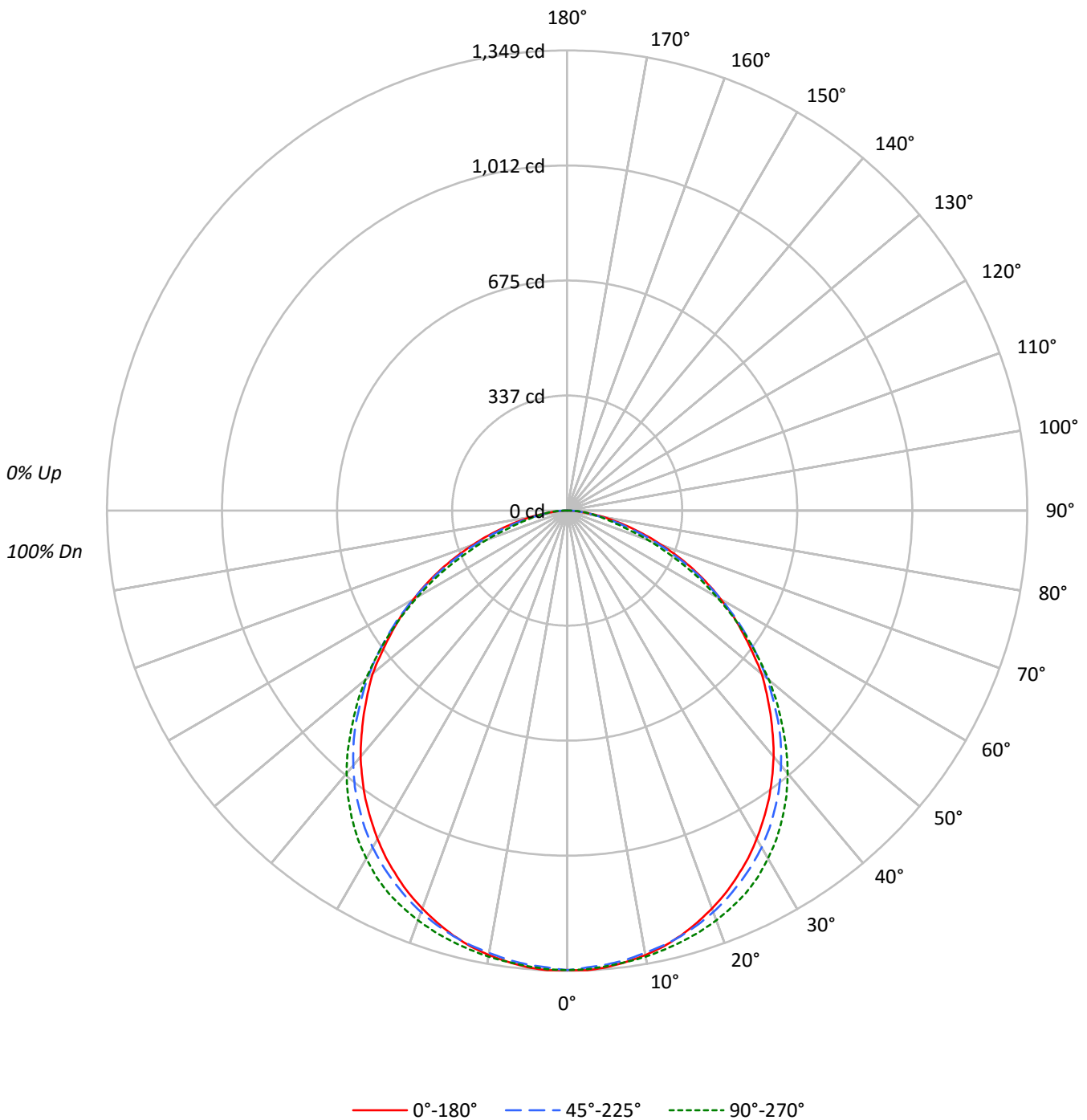
Input Watts (W): 35.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	85	80	97	90	84	79	87	82	77		83	79	75		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	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		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	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

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

	0°	45°	90°
0°	3625	3625	3625
5°	3630	3609	3622
10°	3615	3598	3628
15°	3592	3597	3641
20°	3555	3587	3660
25°	3510	3567	3676
30°	3454	3544	3658
35°	3389	3494	3615
40°	3309	3427	3534
45°	3207	3328	3395
50°	3118	3199	3232
55°	2961	3021	3006
60°	2802	2802	2724
65°	2601	2540	2397
70°	2306	2205	1991
75°	1998	1815	1533
80°	1638	1415	1390
85°	1087	1284	1386



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.4	3.6
10°-20°	365.6	10.2
20°-30°	555.7	15.5
30°-40°	665.3	18.6
40°-50°	671.1	18.7
50°-60°	571.6	16.0
60°-70°	390.9	10.9
70°-80°	187.2	5.2
80°-90°	47.4	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°	1048.6	29.3
0°-40°	1713.9	47.8
0°-60°	2956.6	82.5
0°-90°	3582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3582.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1347	1347	1347	1347	1347	
5°	1344	1342	1336	1342	1341	128
15°	1290	1286	1291	1306	1307	364
25°	1182	1184	1201	1229	1238	545
35°	1032	1035	1064	1094	1100	644
45°	843	849	875	892	892	651
55°	631	634	644	646	641	565
65°	408	400	399	384	376	403
75°	192	189	175	152	147	205
85°	35	38	42	43	45	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1347.1	1347.1	1347.1	1347.1	1347.1
2.5°	1348.7	1347.1	1340.7	1347.1	1345.5
5°	1343.9	1342.3	1335.9	1342.3	1340.7
7.5°	1334.3	1332.7	1327.9	1334.3	1334.3
10°	1323.1	1319.9	1316.7	1326.3	1327.9
12.5°	1308.7	1305.5	1305.5	1316.7	1318.3
15°	1289.5	1286.3	1291.1	1305.5	1307.1
17.5°	1267.0	1265.4	1273.4	1291.1	1294.3
20°	1241.4	1239.8	1252.6	1273.4	1278.2
22.5°	1214.2	1214.2	1228.6	1252.6	1259.0
25°	1182.1	1183.7	1201.4	1228.6	1238.2
27.5°	1148.5	1151.7	1172.5	1203.0	1211.0
30°	1111.7	1116.5	1140.5	1169.3	1177.3
32.5°	1071.6	1076.4	1103.6	1134.1	1142.1
35°	1031.6	1034.8	1063.6	1094.0	1100.4
37.5°	986.7	991.5	1022.0	1049.2	1055.6
40°	941.9	946.7	975.5	1001.1	1005.9
42.5°	892.2	898.6	927.4	948.3	951.5
45°	842.6	849.0	874.6	892.2	892.2
47.5°	792.9	796.1	818.5	836.1	834.5
50°	744.8	743.2	764.1	772.1	772.1
52.5°	685.6	690.4	704.8	709.6	704.8
55°	631.1	634.3	643.9	645.5	640.7
57.5°	578.3	576.7	584.7	579.9	573.4
60°	520.6	520.6	520.6	515.8	506.2
62.5°	464.5	461.3	459.7	448.5	443.7
65°	408.5	400.5	398.9	384.4	376.4
67.5°	349.2	346.0	338.0	323.6	309.1
70°	293.1	289.9	280.3	262.7	253.1
72.5°	241.9	238.7	225.9	205.0	192.2
75°	192.2	189.0	174.6	152.2	147.4
77.5°	145.8	144.2	129.7	118.5	116.9
80°	105.7	104.1	91.3	91.3	89.7
82.5°	67.3	67.3	64.1	65.7	67.3
85°	35.2	38.4	41.6	43.2	44.9
87.5°	11.2	17.6	20.8	22.4	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)